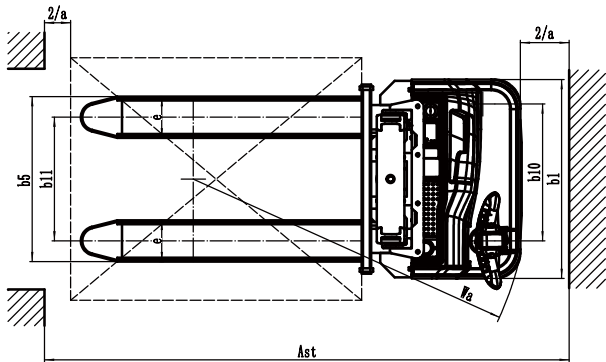
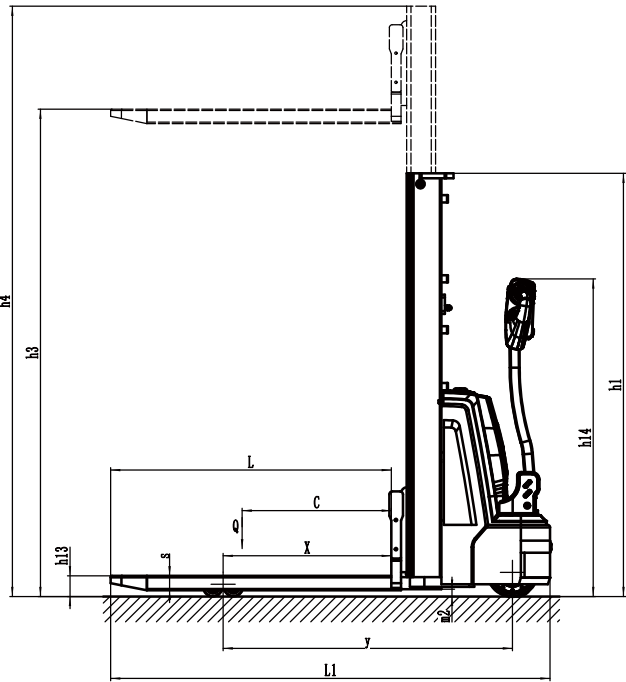


Features

Truck	Standard	Options
Key switch	●	
On-board charger	●	
Upright walking	●	
Fork lowered height: 90mm	●	
Fork spread: 680mm	●	
Fork length: 1150mm	●	
Lifting height: 2.5 meters	●	
Fork lengths: 900/1000/1220/1300/1400/1500mm		☐
Fork spread: 560/750/800/900/1000mm		☐
Sleeve-type forks		☐
Forged sleeve-type forks		☐
Fork lowered height: 85mm		☐
Lifting heights: 2.0/2.7/3.0/3.3/3.5/4.0 meters		☐
Load backrest		☐
Battery charger (see configuration table)		☐
Controls and instruments		
Battery meter (with charge, time display, and error codes)	●	
Stepless speed control for proportional lifting/lowering		☐
Driving space		
Left and right rearview mirrors		☐
Safety		
Bluetooth fingerprint lock	●	
Emergency power-off switch	●	
Horn	●	
Lifting speed limit switch	●	
Mast guard (mesh cover)	●	
Overhead guard		☐
Reverse buzzer		☐
Warning light		☐



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Forklift" App



ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform to the European Safety Requirements.



Z10 SERIES

WALKIE PALLET STACKER

With capacity of 1,500 to 2,000kg

Z10 SERIES

WALKIE PALLET STACKER

- The Z10 series is an economical walkie pallet stacker featuring a four-point support system and an extended handle layout, offering great value, functionality, stability, and a compact design.
- It is cost-effective, highly functional, stable, and space-saving, making it ideal for material handling in factories, warehouses, supermarkets, and more.

APPEARANCE

- The Z10 series walkie pallet stacker features professional industrial design with smooth, dynamic lines, fully considering ergonomics and aligning with modern design trends.
- It extensively uses alloy steel structures and sheet metal stamping processes, ensuring durability and compliance with relevant standards.



HIGH PERFORMANCE

Optional dual-control system enables stepless speed regulation during lifting and lowering, allowing precise fork positioning and smoother operation with reduced inertial impact.



The vehicle is equipped with regenerative braking and anti-rollback protection on slopes.



MAINTENANCE

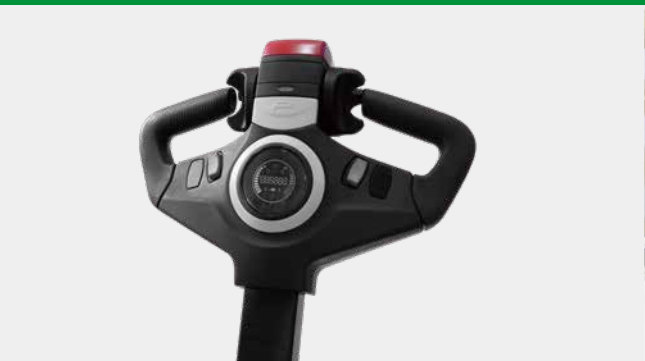
- Battery meter displays charge level and usage time for easy maintenance.
- Rear cover can be safely opened for clear visibility of components, simplifying maintenance.
- All rotating shafts can be lubricated for maintenance.

COMFORT

The four-point support and extended handle design provide a wide operational view and maintain a safe distance from the vehicle during walk-behind operation.



Multi-function handle and ergonomic instrument panel make all controls easy to use.



- Compact body with upright walking capability allows operation even in very narrow spaces.
- On-board charger allows for convenient charging anytime.



Uses high-strength C+H alloy channel steel specifically for forklift trucks, with a solid chassis to ensure no load capacity loss at 2.5m lifting height.



RELIABILITY

- Stamped sheet metal body ensures strength and durability.
- Hydraulic power unit operates with low noise and vibration, ensuring smooth and reliable lifting and lowering.



SAFETY

- Standard feature: Travel speed automatically reduces when forks are lifted to a certain height.
- Smart cushioning during lowering slows down fork descent at a certain height to protect the load.
- Lifting chains use double plate chains for enhanced safety.



- Equipped with three emergency braking functions: release brake, reverse brake, and emergency stop brake to ensure operational safety.



LITHIUM POWERED

EMPOWER YOURSELF WITH THE BEST



POWER THE POSSIBILITIES
RELIABLE LITHIUM-ION TECHNOLOGY

LITHIUM BATTERY ADVANTAGES



Long service life

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-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.



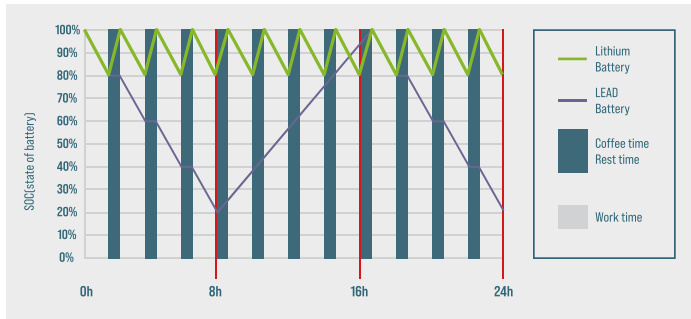
Opportunity charging

Full performance during several shifts thanks to effective interim charging.

FEATURES & BENEFITS THE HANGCHA DIFFERENCE

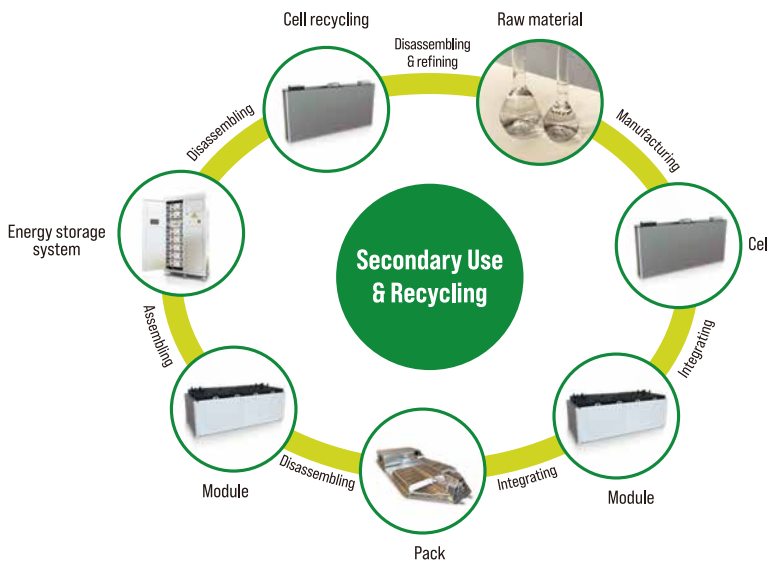
Efficiency

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: -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.

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 designation		CDD15-Z10	CDD20-Z10	CDD15-Z10-I	CDD20-Z10-I
	1.3	Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas		Electric	Electric	Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-pickler		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
Weight	1.9	Wheelbase	y (mm)	1190	1190	1190	1190
	2.1	Service weight	kg	570	665	550	635
Tyres /chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU	PU	PU
	3.2	Tyre size, front		Ø 210 × 70	Ø 210 × 70	Ø 210 × 70	Ø 210 × 70
	3.3	Tyre size, rear		Ø 80 × 70	Ø 80 × 70	Ø 80 × 70	Ø 80 × 70
	3.4	Additional wheels [dimensions]		Ø 115 × 55	Ø 115 × 55	Ø 115 × 55	Ø 115 × 55
	3.5	Wheels, number front/rear [x = driven wheels]		1x+1 / 4	1x+1 / 4	1x+1 / 4	1x+1 / 4
	3.6	Tread, front	b10 (mm)	565	565	565	565
Dimensions	3.7	Tread, rear	b11 (mm)	510	510	510	510
	4.2	Height, mast lowered	h1 (mm)	1745	1745	1745	1745
	4.4	Lift	h3 (mm)	2500	2500	2500	2500
	4.5	Height, mast extended	h4 (mm)	2995	2995	2995	2995
	4.15	Height, lowered	h13 (mm)	90	90	90	90
	4.19	Overall length	l1 (mm)	1810	1810	1810	1810
	4.21	Overall width	b1/ b2 (mm)	820	820	820	820
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	60/170/1150	60/170/1150	60/170/1150	60/170/1150
	4.25	Fork spread	b5 (mm)	680	680	680	680
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	30	30	30	30
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	2210 ¹⁾	2210 ¹⁾	2210 ¹⁾	2210 ¹⁾
	4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast (mm)	2180 ¹⁾	2180 ¹⁾	2180 ¹⁾	2180 ¹⁾
Performance data	4.35	Turning radius	Wa (mm)	1385	1385	1385	1385
	5.1	Travel speed, laden/unladen	km/h	4.0/4.5	4.0/4.5	4.0/4.5	4.0/4.5
	5.2	Lift speed, laden/unladen	mm/s	85/135	75/135	85/135	75/135
	5.3	Lowering speed, lade/unladen	mm/s	95/95	95/95	95/95	95/95
	5.8	Max. gradeability, laden/unladen	%	3/10	5/10	3/10	5/10
	5.10	Service brake		Electronic	Electronic	Electronic	Electronic
Electric- engine	6.1	Drive motor rating S2 60 min	kW	0.75	1.0	0.75	1.0
	6.2	Lift motor rating at S3 15 %	kW	2.2	2.2	2.2	2.2
	6.4	Battery voltage /nominal capacity	[V]/[Ah] or kWh	24/85	48/65	24/60	48/45
	6.5	Battery weight	kg	/	/	/	/

Note: 1) According to VDI2198 standard+400mm. 2) According to VDI2198 standard+242mm.

2.0t Z10 series mast :

Mast type	Max Lifting Height	Height, mast lowered	Height, mast extended	Load Capacity at 600mm	
				1.5t	2.0t
Single cylinder duplex mast	mm	mm	mm	kg	kg
	2000	1495	2495	1500	2000
	2500	1745	2995	1500	2000
	2700	1845	3195	1300	1600
	3000	1995	3495	1000	1200
	3300	2145	3795	750	950
	3500	2245	3995	600	800
	4000	2495	4495	400	600

Optional battery list:

Model	Battery voltage/capacity [V/Ah]		Charger voltage/capacity [V/Ah]	
	Standard	Options	Standard	Options
CDD15-Z10	24/85	24/120	24/10	24/15
CDD20-Z10	48/65	48/85	48/8	/
CDD15-Z10-I	24/60	/	24/15	24/30
CDD20-Z10-I	48/45	/	48/15	/