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"Hangcha Forklift"
App herunterladen



HANGCHA trucks conform
to the European Safety
Requirements

HANGCHA Group Co., LTD behält sich das Recht vor, Änderungen bezgl. Farbe, Spezifikationen, Ausstattung und sonstige Details, dieser Broschüre ohne Vorankündigung vorzunehmen. Fahrzeugfarben können von den Farben in dieser Broschüre abweichen.



X SERIES

PALLET STACKER WITH INITIAL LIFT

with capacity of 1,200 to 1,600kg

X SERIES PALLET STACKER

X series pallet stackers with initial lift 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.

REVOLUTIONARY PERFORMANCE

- The electric steering feature enables easier and more flexible operation (Stand-on/Rider model).
- The permanent magnet synchronous drive system has excellent performance and low energy consumption. The 48V power supply system has less heat generated.
- With the VCU control, the truck can be controlled accurately, stably and more efficiently.

48V
VOLTAGE
WITH
PERMANENT MAGNET
SYNCHRONOUS DRIVE MOTOR



RUGGED ON THE OUTSIDE

The X series pallet stacker with initial lift 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.

Made of high-strength steel plates that are molded by stamping, the truck exterior is robust, durable and high-grade, and meets environmental protection requirements.



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



COMFORTABLE EXPERIENCE

- Optimized designing structure can offer a good visibility and easy entrance of the pallet.
- The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.
- Customer can choose different width of outside fork and length of forks to fit variable pallet.



RELIABILITY

- With the 4-pivot and low center of gravity design and a high-strength steel frame structure, the frame has a large residual load capacity.
- The lifting cylinders of the arm have been optimized for design, ensuring stability and reliability, with reduced stress and increased durability.
- Using non-contact proximity switch, it can provide long life and reliable operation.
- H-type mast profile section to provide more stable and rigid performance.
- This truck features a newly designed drive system, where the drive motor does not rotate with the steering tiller during turning, thus preventing the cables connected to the drive motor from easily breaking due to bending.



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



- Newly developed tiller is compact and stylish.



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



- The hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- 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 power plug is fixed on the truck body to avoid damage from battery installment.



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



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

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

SAFETY

For the stand-on model, a function of stopping lifting when the lifting height reaches the limit of 1.8m and resuming the lifting after the guardrails are retracted is provided to facilitate personnel to escape when high position goods fall.

- Turning speed is automatically reduced when steering (Stand-on/Rider model).
- 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 emergency button on the tiller head can effectively avoid the harm to the driver.



Foot detection sensor - trucks slows down or stops if operator's foot is detected outside of the platform contours (Rider model option).



Travel speed will be automatically reduced after fork lifting 500mm.



- The lifting buffering function can ensure the safety of the truck when the fork is lifted to the top.
- 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)



The truck with assembly overhead guard can protect the driver's safety in case of high-position cargo falling. (Rider Model)



MAINTENANCE



- Permanent magnet synchronous motor need no maintenance.
- The fault information can be checked directly via the interactive instruments instead of the manual.
- Rear cover can be completely open, operator can see all the components, so the maintenance is very convenient.
- All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.



HANGCHA provides LI-ion battery (LiFePO4) with 6 years or 12000 hours warranty.

**6 YEARS
WARRANTY**

LITHIUM POWERED

EMPOWER YOURSELF WITH THE BEST



Li
Lithium

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.



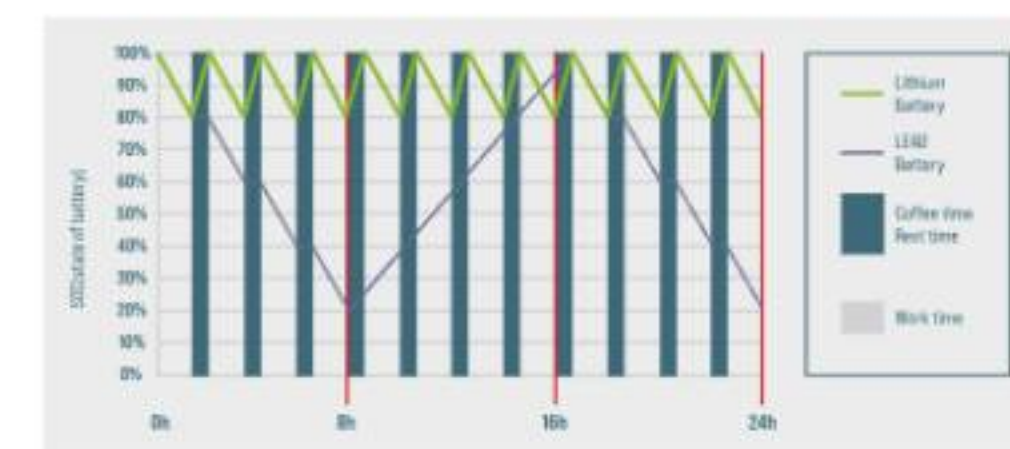
Opportunity charging

Full performance during several shifts thanks to effective interim charging.

FEATURES & BENEFITS THE HANGCHA DIFFERENCE

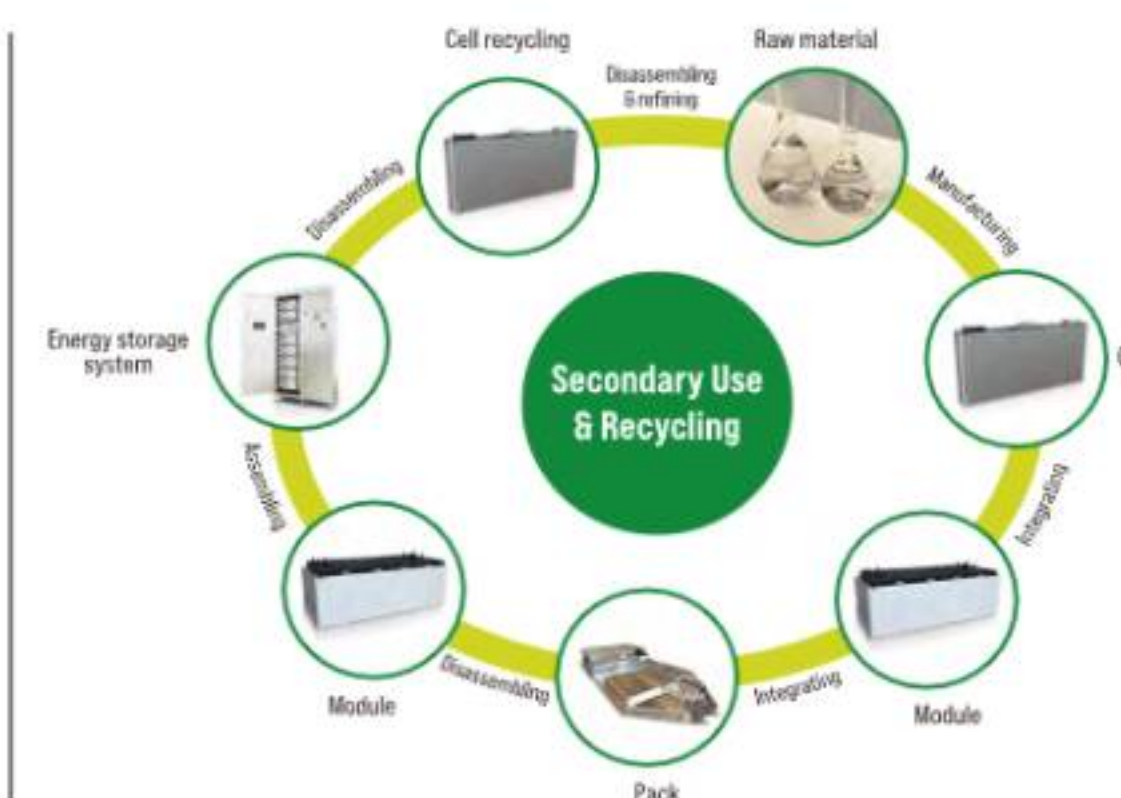
Efficiency

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 - 85°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

1.2t Mast Specification

Mast type	Max Lifting Height h ₃	Max.fork height (h ₃ + h ₁₊₂)	Lowered Height h ₁	Extended Height h ₄	Free lift	Load capacity at 600mm	
						1.2t	
	mm	mm	mm	mm	mm	kg	
Double cylinders Duplex wide view	2100 ¹⁾	2190	1540	2590	90	1200	
	2500 ¹⁾	2590	1740	2990	90	1200	
	2700	2790	1840	3190	90	1200	
	3000	3090	1990	3490	90	1150	
	3200	3290	2090	3690	90	1020	
	3400	3490	2190	3890	90	920	
Duplex full-free wide view	2100 ¹⁾	2190	1540	2590	1070	1200	
	2500 ¹⁾	2590	1740	2990	1270	1200	
	2700 ¹⁾	2790	1840	3190	1370	1200	
	3000	3090	1990	3490	1520	1150	
	3200	3290	2090	3690	1620	1020	
	3400	3490	2190	3890	1720	920	
Triplex full-free wide view	3600 ¹⁾	3690	1660	4090	1195	980	
	3900 ¹⁾	3990	1760	4390	1295	920	
	4100 ¹⁾	4190	1830	4590	1360	770	
	4300	4390	1990	4790	1425	730	
	4500	4590	1990	4990	1485	700	
	4700	4790	2030	5190	1560	650	

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

1.4-1.6t Mast Specification

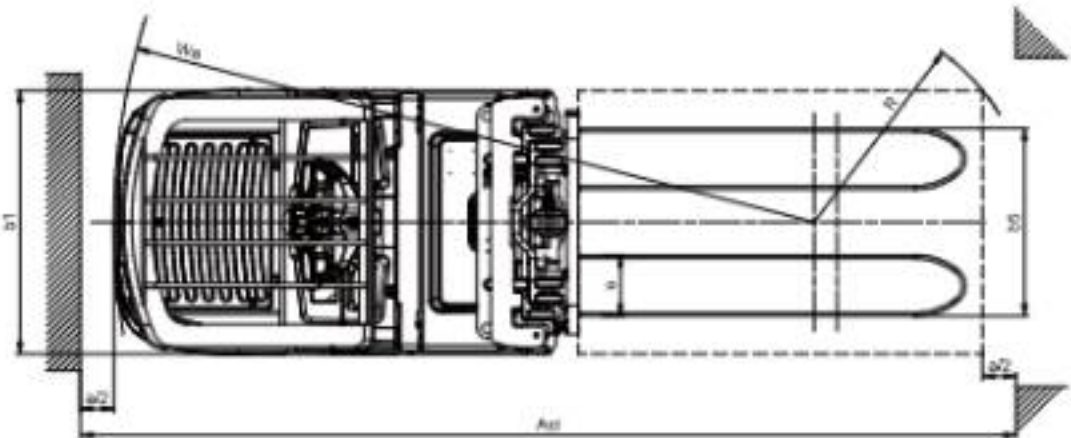
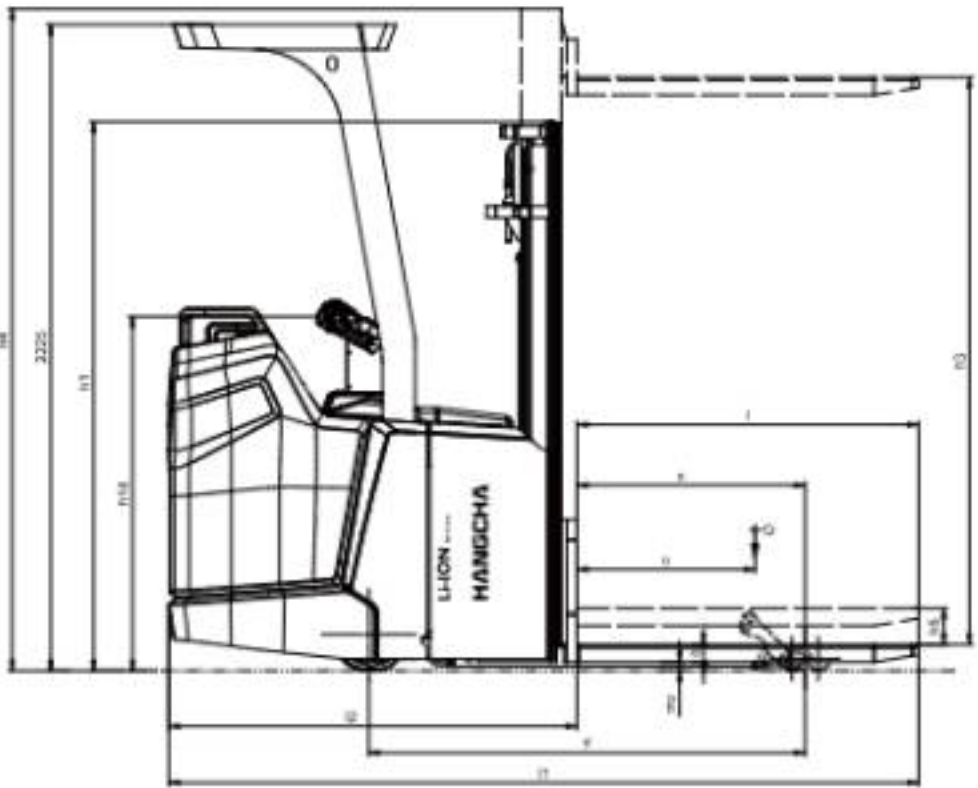
Mast type	Max Lifting Height h ₃	Max.fork height (h ₃ + h ₁₊₂)	Lowered Height h ₁	Extended Height h ₄	Free lift	Load capacity at 600mm	
						1.4t	1.6t
	mm	mm	mm	mm	mm	kg	kg
Double cylinders Duplex wide view	2000 ¹⁾	2090	1540	2540	90	1400	1600
	2400 ¹⁾	2490	1740	2940	90	1400	1600
	2700	2790	1890	3240	90	1300	1400
	2900	2990	1990	3440	90	1200	1250
	3000	3090	2040	3540	90	1150	1200
	3200	3290	2190	3840	90	950	1000
	3500	3590	2290	4040	90	900	950
	3800	3890	2440	4340	90	850	900
	4000	4090	2540	4540	90	800	850
	4200	4290	2640	4740	90	750	800
Duplex full-free wide view	4500	4590	2790	5040	90	700	750
	2000 ¹⁾	2090	1540	2540	1020	1400	1600
	2400 ¹⁾	2490	1740	2940	1220	1400	1600
	2700	2790	1890	3240	1370	1300	1400
	3000	3090	2040	3540	1520	1150	1200
Triplex full-free wide view	3200	3290	2190	3840	1670	950	1000
	3500	3590	2290	4040	1770	900	950
	3500 ¹⁾	3590	1660	4020	1160	900	950
	3800 ¹⁾	3890	1760	4320	1260	850	900
	4000 ¹⁾	4090	1830	4520	1330	800	850
	4200	4290	1990	4720	1390	750	800
	4500	4590	1990	5020	1490	700	750
	4700	4790	2060	5220	1560	650	700
	4800	4890	2090	5320	1590	630	680
	5000	5090	2160	5520	1660	600	650
	5200	5290	2230	5720	1730	550	600
	5500	5590	2330	6020	1830	450	500
	6000	6090	2500	6520	2000	350	400

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

Technical data (Rider pallet stackers)

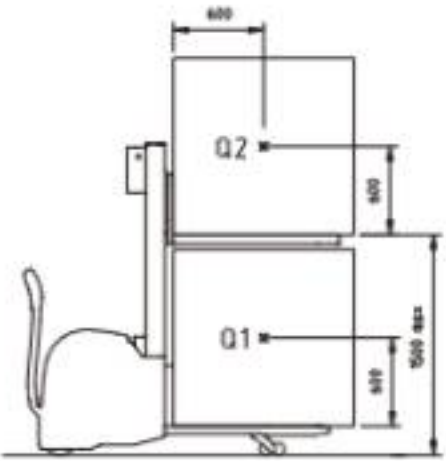
Distinguishing mark	1.1	Manufacturer (abbreviation)		HANGCHA GROUP CO.,LTD.	
	1.2	Manufacturer's type designation		CD014-KT1S-S/SUL	CD016-KT1S-S/SUL
	1.3	Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas		Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		standing	standing
Weight	1.5.1	Load capacity at load centre distance c1	kg	1400	1600
	1.5.2	Load capacity at load centre distance c2	kg	2000	2000
	1.6	Load centre distance	c (mm)	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	700/768	700/768
Tyre/chassis	1.9	Wheelbase	y (mm)	1401/1409	1401/1409
	2.1	Service weight	kg	1360	1360
	2.2	Axle loading, laden front/rear	kg	1090/1680	1160/1900
	2.3	Axle loading, unladen front/rear	kg	965/395	965/395
Dimensions	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU
	3.2	Tyre size, front		Ø250-80	Ø250-80
	3.3	Tyre size, rear		Ø83-73	Ø83-73
	3.4	Additional wheels (dimensions)		Ø140-55	Ø140-55
	3.5	Wheels, number front/rear (+ driven wheels)		1x +1/4	1x +1/4
	3.6	Tread, front	b10 (mm)	516	516
	3.7	Tread, rear	b11 (mm)	365	365
	4.2	Height, mast lowered	h1 (mm)	1890	1890
	4.3	Free lift	h2 (mm)	90	90
	4.4	Lift	h3 (mm)	2700	2700
Performance data	4.5	Height, mast extended	h4 (mm)	3240	3240
	4.6	Initial lift	h5 (mm)	125	125
	4.9	Height drawbar in driving position	h14 (mm)	1220	1220
	4.15	Height, lowered	h13 (mm)	90	90
	4.19	Overall length	l1 (mm)	2525 ²⁾	2525 ²⁾
	4.20	Length to face of forks	l2 (mm)	1375 ³⁾	1375 ³⁾
	4.21	Overall width	b1/b2 (mm)	800	800
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	65/195/1150	65/195/1150
	4.25	Fork spread	b5 (mm)	570	570
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	15	15
Electric-engine	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	2730 ⁴⁾	2730 ⁴⁾
	4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast (mm)	2790 ⁴⁾	2790 ⁴⁾
	4.35	Turning radius	Ws (mm)	2090 ⁴⁾	2090 ⁴⁾
	5.1	Travel speed, laden/unladen	km/h	9/11	9/11
	5.2	Lift speed, laden/unladen	m/s	0.195/0.4	0.19/0.4
	5.3	Lowering speed, laden/unladen	m/s	0.45/0.4	0.45/0.4
	5.9	Max. gradeability, laden/unladen	%	10/18	9/18
	5.10	Service brake		Regenerative	Regenerative
	6.1	Drive motor rating S2 60 min	kW	2.2	2.2
	6.2	Lift motor rating at S3 15 %	kW	4.2	4.2
	6.4	Battery voltage/nominal capacity	V/Ah	48/80	48/80
	6.5	Battery weight	kg	60	60

Note: 1) According to VD2190 standard-261mm. 2) According to VD2190 standard-157mm. 3) Triplex full-free-211mm 4) Lowering-69mm



Technical data

Distinguishing mark	1.1	Manufacturer	HANGCHA GROUP CO., LTD.		
	1.2	Manufacturer's type designation	C0012-XT1-SL	C0014-XT1-SL	C0016-XT1-SL
	1.3	Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas	Electric	Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	pedestrian	pedestrian	pedestrian
	1.51	Load capacity at load centre distance c_L	kg	1200	1400
Weight	1.52	Load capacity at load centre distance c_L	kg	2000	2000
	1.6	Load centre distance	c [mm]	600	600
	1.8	Load distance, centre of drive axle to fork	x [mm]	700/768	700/768
	1.9	Wheelbase	y [mm]	1387/1455	1387/1455
	2.1	Service weight	kg	1090	1120
Tyres/chassis	2.2	Axle loading, laden front/rear	kg	780/1510	850/1660
	2.3	Axle loading, unladen front/rear	kg	740/350	760/360
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	PU	PU	PU
	3.2	Tyre size, front		Ø250x60	Ø250x60
	3.3	Tyre size, rear		Ø83x73	Ø83x73
Dimensions	3.4	Additional wheels (dimensions)		Ø140x55	Ø140x55
	3.5	Wheels, number front/rear [x = driven wheels]		1x+1/4	1x+1/4
	3.6	Tread, front	b ₁₀ [mm]	510	510
	3.7	Tread, rear	b ₁₁ [mm]	385	385
	4.2	Height, mast lowered	h ₁ [mm]	1840	1890
Performance data	4.3	Free lift	h ₂ [mm]	90	90
	4.4	Lift	h ₃ [mm]	2700	2700
	4.5	Height, mast extended	h ₄ [mm]	3190	3240
	4.6	Initial lift	h ₅ [mm]	125	125
	4.9	Height drawbar in driving position min./max.	h ₁₂ [mm]	790/1205	790/1205
Electric-engine	4.15	Height, lowered	h ₁₃ [mm]	90	90
	4.19	Overall length	l ₁ [mm]	2000 ¹⁾	2000 ²⁾
	4.20	Length to face of forks	l ₂ [mm]	850 ³⁾	850 ⁴⁾
	4.21	Overall width	b ₁ /b ₂ [mm]	600	600
	4.22	Fork dimensions DIN ISO 2331	s/s/1 [mm]	65/185/1150	65/185/1150
Electric-engine	4.25	Fork spread	b ₃ [mm]	570	570
	4.32	Ground clearance, centre of wheelbase	m ₂ [mm]	15	15
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast [mm]	2267 ¹⁾	2267 ²⁾
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast [mm]	2317 ¹⁾	2317 ²⁾
	4.35	Turning radius	W ₀ [mm]	1620	1620
Electric-engine	5.1	Travel speed, laden/unladen	km/h	6/6	6/6
	5.2	Lift speed, laden/unladen	m/s	0.225/0.47	0.185/0.4
	5.3	Lowering speed, laden/unladen	m/s	0.45/0.4	0.45/0.4
	5.8	Max. gradeability, laden/unladen	%	8/18	8/18
	5.10	Service brake		Regenerative	Regenerative
Electric-engine	6.1	Drive motor rating S2 60 min	kW	2.2	2.2
	6.2	Lift motor rating at S3 15%	kW	4.2	4.2
	6.4	Battery voltage/nominal capacity	[V]/[Ah] or kWh	48/80	48/80
	6.5	Battery weight	kg	60	60



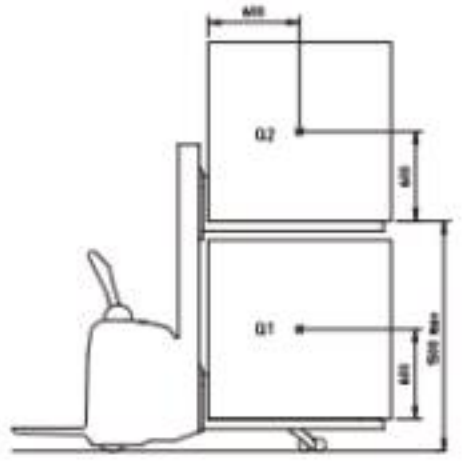
Q1[kg]	Q2[kg]	Q1-Q2[kg]
max	min	max
2000	0	2000
1100	100	100
1000	200	200
900	300	300
800	400	400
700	500	500
600	600	600

Q1[kg]	Q2[kg]	Q1-Q2[kg]
max	min	max
2000	0	2000
1300	100	100
1200	200	200
1100	300	300
1000	400	400
900	500	500
800	600	600
700	700	700

Q1[kg]	Q2[kg]	Q1-Q2[kg]
max	min	max
2000	0	2000
1500	100	100
1400	200	200
1300	300	300
1200	400	400
1100	500	500
1000	600	600
900	700	700
800	800	800

Technical data

Distinguishing mark	1.1	Manufacturer	HANGCHA GROUP CO., LTD.		
	1.2	Manufacturer's type designation	C0012-XT15-SL	C0014-XT15-SL	C0016-XT15-SL
	1.3	Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas	Electric	Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	standing	standing	standing
	1.51	Load capacity at load centre distance c_L	kg	1200	1400
Weight	1.52	Load capacity at load centre distance c_L	kg	2000	2000
	1.6	Load centre distance	c [mm]	600	600
	1.8	Load distance, centre of drive axle to fork	x [mm]	700/768	700/768
	1.9	Wheelbase	y [mm]	1366/1434	1401/1469
	2.1	Service weight	kg	1150	1200
Tyres/chassis	2.2	Axle loading, laden front/rear	kg	820/1430	1020/1580
	2.3	Axle loading, unladen front/rear	kg	815/335	850/350
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	PU	PU	PU
	3.2	Tyre size, front		Ø250x60	Ø250x60
	3.3	Tyre size, rear		Ø83x73	Ø83x73
Dimensions	3.4	Additional wheels (dimensions)		Ø140x55	Ø140x55
	3.5	Wheels, number front/rear [x = driven wheels]		1x+1/4	1x+1/4
	3.6	Tread, front	b ₁₀ [mm]	518	518
	3.7	Tread, rear	b ₁₁ [mm]	385	385
	4.2	Height, mast lowered	h ₁ [mm]	1840	1890
Performance data	4.3	Free lift	h ₂ [mm]	90	90
	4.4	Lift	h ₃ [mm]	2700	2700
	4.5	Height, mast extended	h ₄ [mm]	3190	3240
	4.6	Initial lift	h ₅ [mm]	125	125
	4.9	Height drawbar in driving position min./max.	h ₁₂ [mm]	1170/1400	1170/1400
Electric-engine	4.15	Height, lowered	h ₁₃ [mm]	90	90
	4.19	Overall length	l ₁ [mm]	2053/2501 ¹⁾	2098/2536 ¹⁾
	4.20	Length to face of forks	l ₂ [mm]	903/1351 ¹⁾	938/1386 ¹⁾
	4.21	Overall width	b ₁ /b ₂ [mm]	600	600
	4.22	Fork dimensions DIN ISO 2331	s/s/1 [mm]	65/185/1150	65/185/1150
Electric-engine	4.25	Fork spread	b ₃ [mm]	570	570
	4.32	Ground clearance, centre of wheelbase	m ₂ [mm]	15	15
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast [mm]	2262(2703) ¹⁾	2302(2737) ¹⁾
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast [mm]	2318(2753) ¹⁾	2352(2787) ¹⁾
	4.35	Turning radius	W ₀ [mm]	1619(2054) ¹⁾	1655(2089) ¹⁾
Electric-engine	5.1	Travel speed, laden/unladen	km/h	9/11	9/11
	5.2	Lift speed, laden/unladen	m/s	0.225/0.47	0.185/0.4
	5.3	Lowering speed, laden/unladen	m/s	0.45/0.4	0.45/0.4
	5.8	Max. gradeability, laden/unladen	%	10/18	8/18
	5.10	Service brake		Regenerative	Regenerative
Electric-engine	6.1	Drive motor rating S2 60 min	kW	2.2	2.2
	6.2	Lift motor rating at S3 15%	kW	4.2	4.2
	6.4	Battery voltage/nominal capacity	[V]/[Ah] or kWh	48/80	48/80
	6.5	Battery weight	kg	60	60



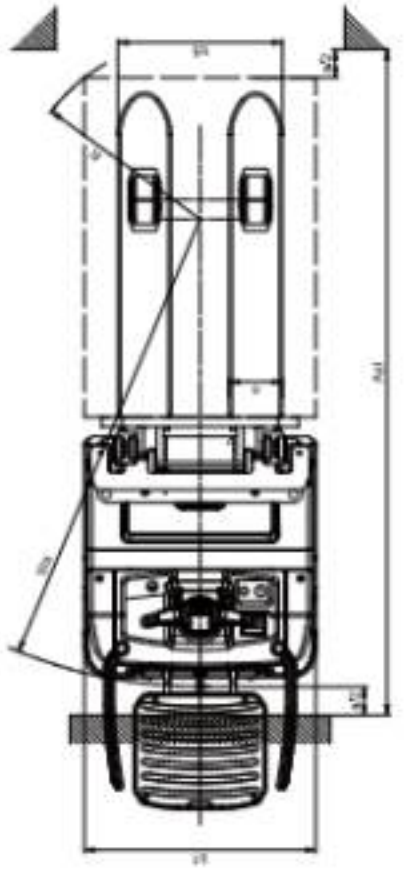
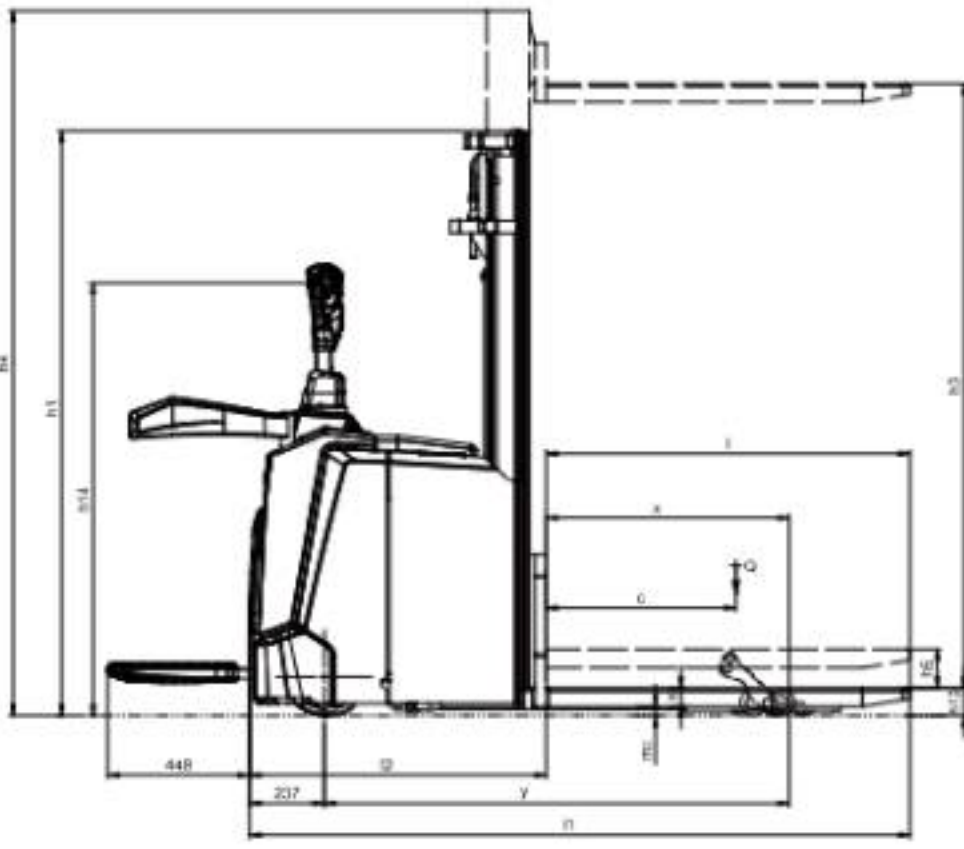
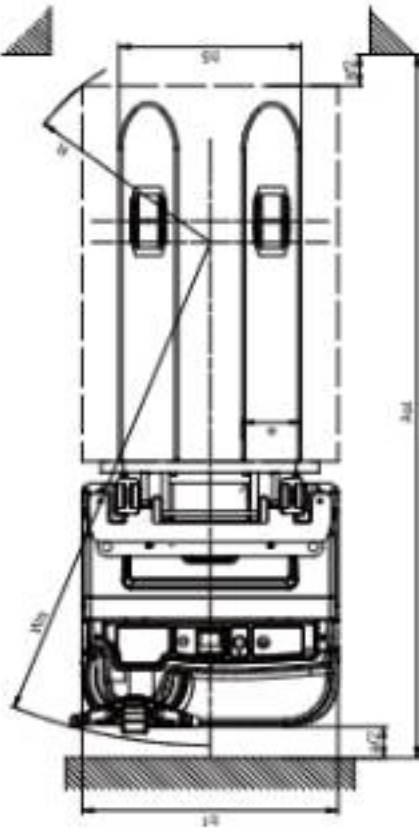
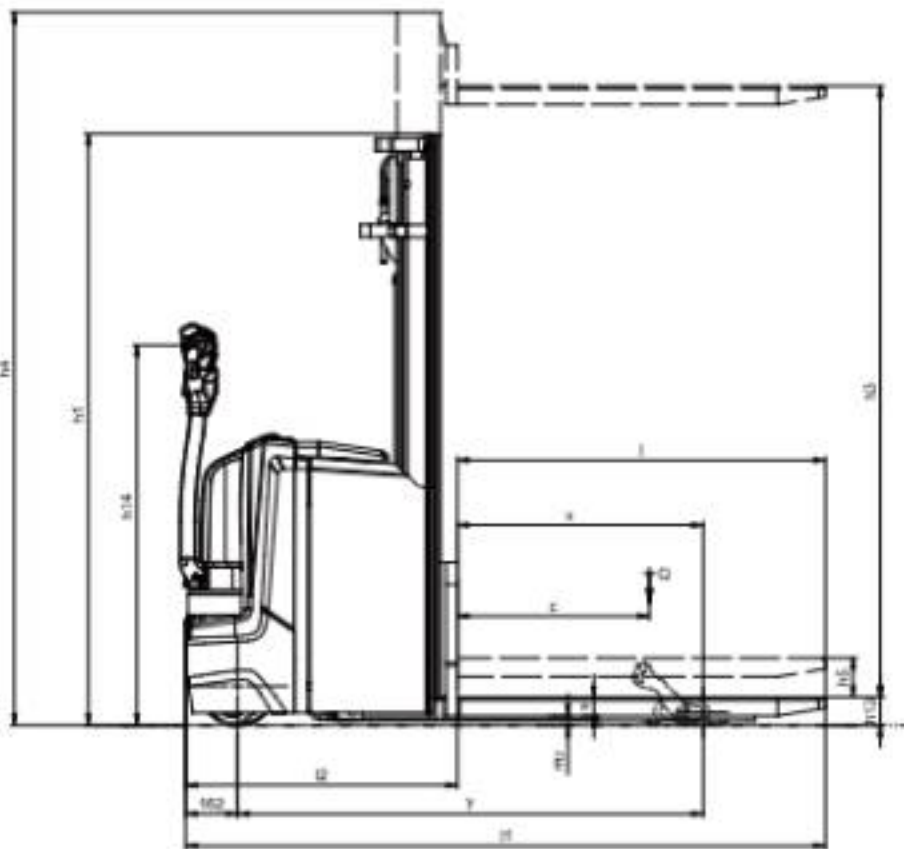
Q1[kg]	Q2[kg]	Q1-Q2[kg]
max	min	max
2000	0	2000
1100	100	100
1000	200	200
900	300	300
800	400	400
700	500	500
600	600	600

Q1[kg]	Q2[kg]	Q1-Q2[kg]
max	min	max
2000	0	2000
1300	100	100
1200	200	200
1100	300	300
1000	400	400
900	500	500
800	600	600
700	700	700

Q1[kg]	Q2[kg]	Q1-Q2[kg]
max	min	max
2000	0	2000
1500	100	100
1400	200	200
1300	300	300
1200	400	400
1100	500	500
1000	600	600
900	700	700
800	800	800

Note: 1) According to VDI2198 standard-261mm. 2) According to VDI2198 standard-157mm. 3) Triples full-free-231mm 4) Lowering-69mm

Note: 1) According to VDI2198 standard-261mm. 2) According to VDI2198 standard-157mm. 3) Triples full-free-231mm 4) Lowering-69mm



Features

Truck	Standard	Options
48V permanent magnet synchronous drive motor	●	
Hydraulic power unit	●	
PU wheel	●	
1150mm fork length	●	
570mm outside fork width	●	
Wheel arms lifting limitation	●	
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		○
Different width of outside fork		○
Key switch		○
48V/105Ah lithium battery (EVE)		○
48V/125Ah lithium battery (CATL)		○
Load backrest		○
Lithium battery(48V/80Ah,EVE) with the on-board charger(48V,20A)		○
Lithium battery(48V/105Ah,EVE) with the on-board charger(48V,20A)		○
Controls and instruments		
Electric steering (Stand-on and Rider model)	●	
Systech controller	●	
Interactive meter	●	
Non contact interlock switch	●	
Safety		
Emergency disconnect switch	●	
Horn	●	
PIN code access	●	
Turning deceleration(Stand-on and Rider model)	●	
Mast protection		○

