

Burger Hub- und Transportmittel GmbH

Distribution Deutschland

Junostraße 30 | 35745 Herborn-Burg

Telefon: +49 2772 9657-0

E-Mail: kontakt@bhtgmbh.de

www.bhtgmbh.de www.hangcha-gabelstapler.de



IS045001:2018



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IS09001:2015



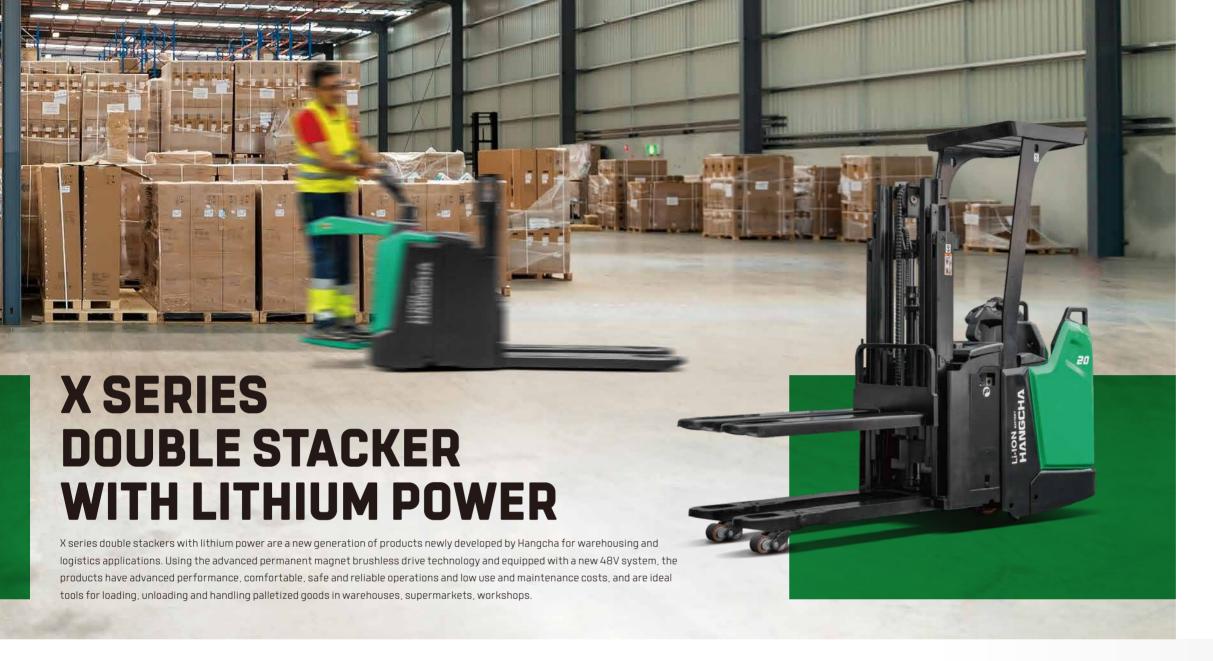








with capacity of 1,000 to 2,000 kg



RUGGED ON THE OUTSIDE



- The X series double stacker with lithium power 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
- 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.







REVOLUTIONARY **PERFORMANCE**

- The permanent magnet synchronous drive system has excellent performance and low energy consumption. The 48V power supply system has less heat generated.
- With high power drive motor, provides fast travel speed and good gradeability.
- PERMANENT MAGNET SYNCHRONOUS DRIVE MOTOR

- The electric steering feature enables easier and more flexible operation (Stand-on & rider model)
- With the VCU control, the truck can be controlled accurately, stably and more efficiently.
- Regenerative brake and slope anti-slide function are offered by
- Double-stacker capability for excellent passability; handles two pallets simultaneously, doubling throughput.



28.0% Gradeability (laden)

CDD20-XT1S-SISUD

28.0 % Gradeability (laden)

MAINTENANCE

- Permanent magnet synchronous motor need no maintenance
- 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.
- The fault information can be checked directly via the interactive instruments instead of the manual.





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.
 - Newly developed tiller is compact and stylish.
 - Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.





RELIABILITY

- With the 5-piovt and low center of gravity design and a high-strength steel frame structure, the frame has a large residual load capacity.
- The newly designed traction system of the pedestrian double stacker keeps the drive motor from rotating with the tiller during steering, preventing all cables connected to the motor from breaking easily.
- Using non-contact proximity switch, it can provides long life and reliable operation.





The lifting cylinders have been optimized for design, ensuring stability and reliability, with reduced stress and increased durability.

SAFETY

- 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.

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. The emergency button on the tiller head can effectively avoid the harm to the driver.





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



function can ensure the safety of the truck when the fork is lifted to the top.

Standard electronic lift limit and intelligent controller-based protection provide dual safeguards, eliminating impact at full lift to protect both the motor and the cargo.











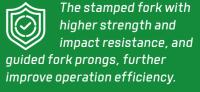


- Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- The power plug is fixed on the truck body to avoid damage from battery installment.
- The hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- 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.

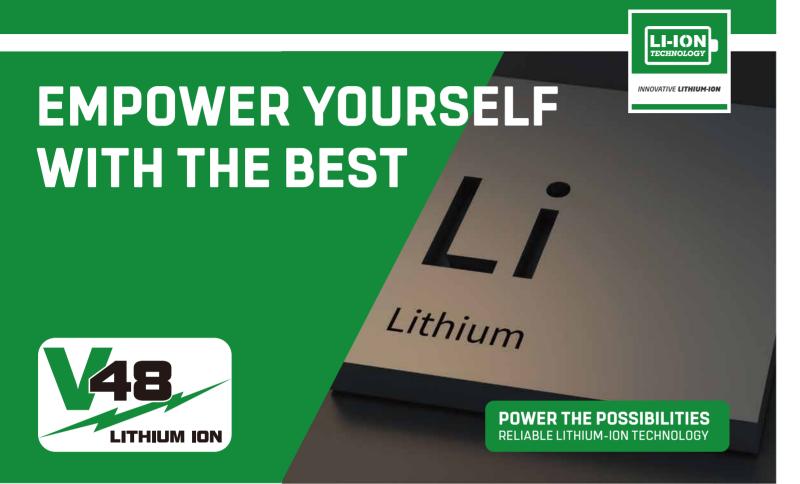








LITHIUM POWERED



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-lon 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.



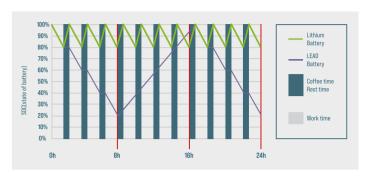
3. The power consumed for charging (kWh) = the available power of the lithium

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.

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.

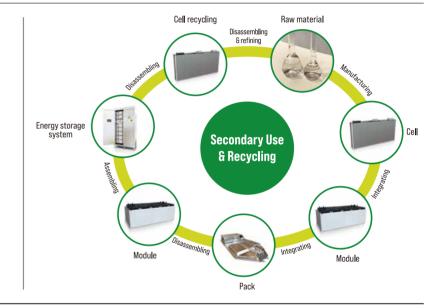


Safety

/ 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.





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

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. 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 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).

battery : 93% (the charging efficiency of the charger is calculated as 93%).



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

HANGCHA BMS (hattery 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

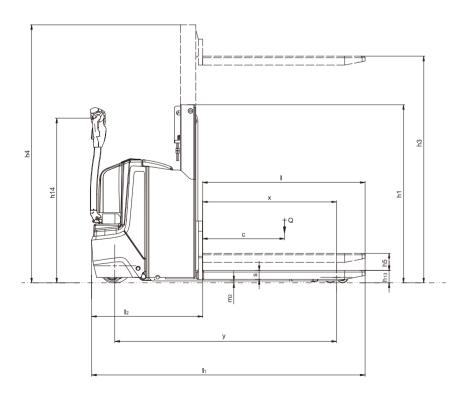


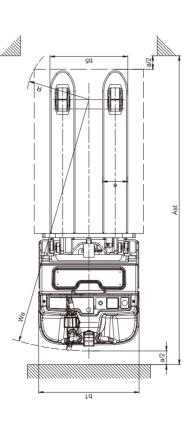
Other Features:

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

Technical data

ing	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.
	1.2	Manufacturer's type designition		CDD20-XT1-SID
hing	1.51	Load capacity at load centre distance c1	kg	1000
juis ark	1.52	Load capacity at load centre distance c2	kg	2000
Distinguishing mark	1.6	Load centre distance	c (mm)	600
Dis	1.8	Load distance, centre of drive axle to fork	x (mm)	912/980
	1.9	Wheelbase	y (mm)	1555/1623
	3.2	Tyre size, front		Ø250-80
Tyres/chassis	3.3	Tyre size, rear		Ø83.73
	3.4	Additional wheels (dimensions)		Ø125.50
o/sa	3.5	Wheels, number front/rear (x = driven wheels)		1x+2/4
Tyre	3.6	Tread, front	b10 (mm)	475
	3.7	Tread, rear	b11 (mm)	385
	4.4	Lift	h3 (mm)	1660
	4.6	Initial lift	hs (mm)	125
	4.15	Height, lowered	h13 (mm)	90
SL	4.19	Overall length	lı (mm)	2002
Dimensions	4.20	Length to face of forks	12 (mm)	812
	4.21	Overall width	b1/b2 (mm)	735
ä	4.22	Fork dimensions DIN ISO 2331	s/e/I(mm)	65/185/1190
	4.25	Fork spread	bs (mm)	570
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	15
	4.35	Turning radius	Wa (mm)	1770
a c	5.1	Travel speed, laden/unladen	km/h	6/6
Performance data	5.2	Lift speed, laden/unladen	m/s	0.190/0.350
rfor da	5.3	Lowering speed, lade/unladen	m/s	0.450/0.350
Ъе	5.8	Max. gradeability, laden/unladen	%	10/16
<u>ه</u> ن	6.1	Drive motor rating S2 60 min	kW	2.2
Electric- engine	6.2	Lift motor rating at S3 15 %	kW	4.2
_ <u>=</u> =	6.4	Battery voltage/nominal capacity	(V)/(Ah) or kWh	48/80

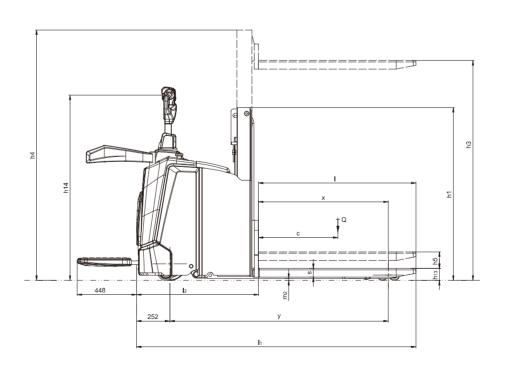


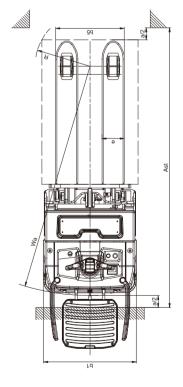


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	1.52	Load capacity at load centre distance c2	kq	2000
	1.6	Load centre distance	c (mm)	600
Jisti			x (mm)	
-	1.8	Load distance, centre of drive axle to fork Wheelbase		912/980
	1.9		y (mm)	1582/1650
co	3.2	Tyre size, front		Ø250×80
Tyres/chassis	3.3	Tyre size, rear		Ø83×73
cha	3.4	Additional wheels (dimensions)		Ø125 _* 50
/sa.	3.5	Wheels, number front/rear (x = driven wheels)		1x +2/4
출	3.6	Tread, front	b10 (mm)	475
	3.7	Tread, rear	b11 (mm)	385
	4.4	Lift	h3 (mm)	1660
	4.6	Initial lift	hs (mm)	125
	4.15	Height, lowered	h13 (mm)	90
ဋ	4.19	Overall length	Iı (mm)	2111
sior	4.20	Length to face of forks	I2 (mm)	921
Dimensions	4.21	Overall width	b1/b2 (mm)	770
	4.22	Fork dimensions DIN ISO 2331	s/e/I(mm)	65/185/1190
	4.25	Fork spread	bs (mm)	570
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	15
	4.35	Turning radius	Wa (mm)	1840
8	5.1	Travel speed, laden/unladen	km/h	9.5/12.5
Performance data	5.2	Lift speed, laden/unladen	m/s	0.190/0.350
forma data	5.3	Lowering speed, lade/unladen	m/s	0.450/0.350
Per	5.8	Max. gradeability, laden/unladen	%	8/16
	6.1	Drive motor rating S2 60 min	kW	2.2
gine	6.2	Lift motor rating at S3 15 %	kW	4.2
Electric- engine	6.4	Battery voltage/nominal capacity	(V)/(Ah) or kWh	48/80
			,	1,55

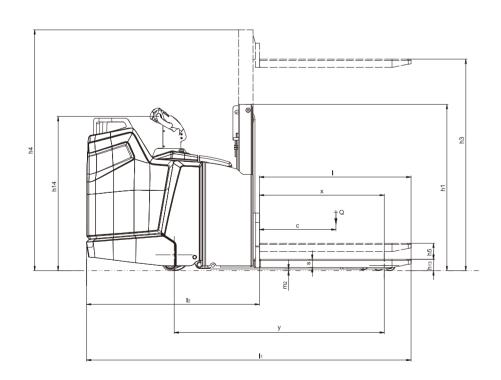
load capacity at 600mm (Pedestrian)

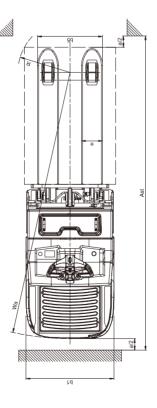




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nguisl mark	1.52	Load capacity at load centre distance c2	kg	2000
iii E	1.6	Load centre distance	c (mm)	600
isi	1.8	Load distance, centre of drive axle to fork	x (mm)	912/980
	1.9	Wheelbase	y (mm)	1582/1650
	3.2	Tyre size, front		Ø250×80
Sis	3.3	Tyre size, rear		Ø83×73
Tyres/chassis	3.4	Additional wheels (dimensions)		Ø125-50
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Ţ	3.6	Tread, front	b10 (mm)	475
	3.7	Tread, rear	b11 (mm)	385
	4.4	Lift	h3 (mm)	1660
	4.6	Initial lift	hs (mm)	125
	4.15	Height, lowered	h13 (mm)	90
su	4.19	Overall length	lı (mm)	2547
Dimensions	4.20	Length to face of forks	I2 (mm)	1357
	4.21	Overall width	b1/b2 (mm)	770
	4.22	Fork dimensions DIN ISO 2331	s/e/I(mm)	65/185/1190
	4.25	Fork spread	bs (mm)	570
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	15
	4.35	Turning radius	Wa (mm)	2263
e c	5.1	Travel speed, laden/unladen	km/h	9.5/12.5
Performance data	5.2	Lift speed, laden/unladen	m/s	0.190/0.350
rf g g	5.3	Lowering speed, lade/unladen	m/s	0.450/0.350
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Electric- engine	6.2	Lift motor rating at S3 15 %	kW	4.2
_	6.4	Battery voltage/nominal capacity	(V)/(Ah) or kWh	48/80





1.0-2.0t Mast Specification

Mast type	Max Lifting Height ha	Max.fork height (h3 +h13)	Mast lowered h1	Mast extended h4	Free lift height	Load capacity at 600mm (Rider / stand-on)	Load capacity at 600mm (Pedestrian)	Mast weight
	mm	mm	mm	mm	mm	kg	kg	kg
	1660	1750	1305	2115	0	1000	1000	245
er nast	2010	2100	1480	2465	0	1000	1000	260
Single cylinder duplex mast	2100	2190	1525	2555	0	1000	1000	265
요양물	2560	2650	1755	3015	0	1000	1000	280
	2900	2990	1925	3355	0	800	700	295
. ts	2050	2140	1210	2580	0	1000	1000	285
gle	2350	2440	1310	2880	0	1000	1000	305
Single cylinder iplex mast	2500	2590	1360	3030	0	1000	1000	310
₹	2905	2995	1495	3435	0	800	700	325

Truck	Standard	Options
48V permanent magnet synchronous drive motor	•	
lydraulic power unit	•	
PU wheel	•	
1190mm fork length	•	
570mm outside fork width	•	
The ground clearance height of fork is 90mm	•	
Lifting damping system	•	
Multi-function tiller	•	
48V/80Ah lithium battery(EVE)	•	
Additional wheels	•	
Dual load wheels	•	
JSB plug	•	
Fork lift & lower adopts stepless speed regulating	•	
Electronic lift limit	•	
Soft landing	•	
Different length of forks		0
680mm width of outside fork		0
Key switch		0
48V/105Ah lithium battery(EVE)		0
48V/125Ah lithium battery (CATL)		0
Load backrest		0
Different lift height (see mast table)		0
Overhead guard (Rider model)		0
Controls and instruments		
Electric steering (Stand-on model)	•	
Systech controller	•	
nteractive meter	•	
Non contact interlock switch	•	
Safety		
Emergency disconnect switch	•	
Horn	•	
PIN code access	•	