LI-ION TECHNOLOGY

INNOVATIVE *LITHIUM-ION*

A Series High Range Stand-on Pallet Stacker With Reach Fork

with capacities of 1,200 to 1,600kg

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"Hangcha Forklift" App herunterladen

Available on the iPhone App Store

ANDROID APP ON Google play

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ISO14001
ISO14001:2015

ISO9001
ISO9001:2015

CE
HANGCHA trucks conform to the European Safety Requirements.
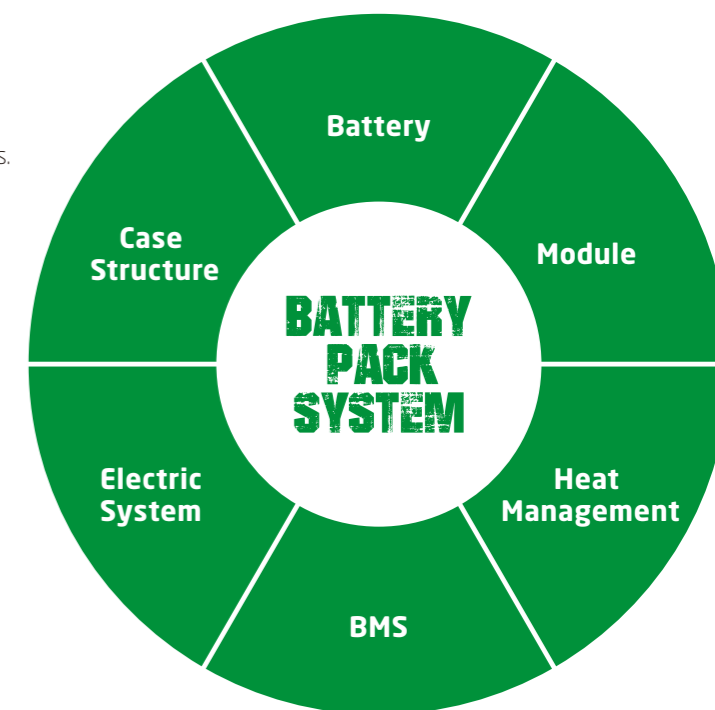
The World of Hangcha

HANGCHA

LITHIUM POWERED

INNOVATIVE SOLUTIONS NEW POWER NOW

Innovative, reliable lithium-ion technology (Lithium Iron-Phosphate), which are developed jointly by HANGCHA and CATL. Battery cells and modules are from CATL, with reliable quality, exclusively for HANGCHA.

/ We use square lithium iron phosphate batteries and modules used in large quantities by commercial vehicles in mature economies.
/ The module uses an aluminum alloy frame which is sturdy, lightweight and with excellent heat dissipation.
/ Safe and effective: Charging efficiency as high as 98%, thermal runaway temperature 600 ℃ or above.
/ Adapted to low temperatures: Comes standard with an electrical heating feature , ensuring normal operation in low temperatures.
/ Quick charging: 2 hours full charge, economic use of each break.
/ Long-working: 4000 charging cycles, capacity retention greater than 80%.
/ Maintenance-free: Battery does not require manual maintenance.
/ Green and clean: Pollution-free, zero emissions.

BATTERY PACK SYSTEM

- Battery
- Module
- Heat Management
- BMS
- Electric System
- Case Structure

Li-Ion 2 hours 100%

Lead-acid batteries 8-10 hours 100%

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-Ion powered forklifts are always available. They allow for fast full charging or boost charging (100 % charge in 2 hours). They are maintenance free and do not require a battery change when used for multi-shift operations.

Li-Ion Battery Pack specification

Type		CQDB12-AC2S-IJ*	CQDB16-AC2S-IJ*
Li-Ion battery	V/Ah	24/125	24/125
Li-Ion battery,Optional	V/Ah	24/228	24/228
Titans charger		SPC-24100	SPC-24100

Note: * CE model

LI-ION TECHNOLOGY

HANGCHA provides Li-Ion battery (LiFePO4) with 5 years or 10000 hours warranty.

CHARGING 4000 CYCLES DISCHARGE

5 YEARS WARRANTY

A Series High Range Stand-on Pallet Stacker With Reach Fork

The A series pallet stacker with reach fork moves goods forward and backward with a scissor fork extension system. It acts as a counterbalanced stacker when its fork is extended, which can handle non-standard pallets, enclosed pallets, and enclosed shelves easily; and acts as a straddle stacker when its fork is retracted, which can operate flexibly in narrow passage.

Easy/ Efficiency/ Economy

Reliability

/ All plug connectors are imported and waterproof, and all cables have reliable protection, which increases reliability of electrical system significantly.
/ Non-contact proximity switch features long service life and reliable operation.
/ Power plug is fastened to truck body, which can avoid damage of plug due to impact when battery is lifted for installation.
/ Flexible connections of the battery can avoid disconnection fault of battery because of lasting vibration.
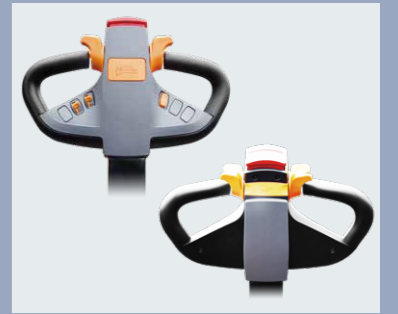
High Performance

/ EPS (Electric Power Steering)system offer easier and more flexible operation.
/ The AC driving motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and is brushless, and maintenance-free.
/ The latest CURTIS AC / ZAPI AC control system realizes accurate and stable control, and higher efficiency.
/ The CANBUS structure makes communication of the entire machine faster and more reliable.
/ Regenerative brake of the truck prevents it from sliding on a slope.
/ Switches, plug connectors, meters, and other important parts are all imported from abroad, with excellent performance and reliable quality.
/ Fork tilting function, and load backrest realize safer loading and unloading of goods.
/ The hydraulic power unit features low noise, small vibration, and stable and reliable lifting and lowering.

Comfort

/ The vibration-reduction design of the pedal reduces fatigue of long-duration operation.
/ New designed tiller has beautiful appearance, and function buttons for comfortable operation.
/ The standard configuration of tortoise speed driving function allows the truck to move at slow speed more easily.

Safety

/ Traveling speed will be automatically reduced after fork lifting 500mm.
/ Turning speed is automatically reduced when steering.
/ The integrated stamping molded guardrail offers better protection for the operator.
/ Release braking, reverse braking and emergency braking can ensure safety of traveling.
/ Anti-sliding function on slope can ensure safety of operation.
/ The belly button on top of operating tiller can avoid the driver from injury effectively.
/ The soft landing system reduces lowering speed automatically when height from ground to fork is less than 100mm, which provides effective protection for goods.

Multi-function tiller

Forks move forward by the scissor structure

Back cover can be opened fully

Proportional controlled forks can be operated more accurately

Maintenance

/ The brushless, maintenance-free AC driving motor reduces operation cost significantly.
/ The meter integrating battery indicator, timer, and fault self-diagnosis is convenient for maintenance.
/ Back cover can be opened fully, and all components and parts are clear at a glance, which is very convenient for maintenance of the entire machine.

Standard specification

/ AC driving motor
/ CURTIS / ZAPI controller for traction motor
/ Controller for pump motor
/ EPS(Electric Power Steering) system
/ Automatic deceleration at turns
/ Proportional speed regulation for all fork operations
/ Pedal and guardrail
/ Emergency power off switch
/ Multi-function battery condition meter
/ High-performance loading wheels
/ Fork length 1070mm
/ Traveling speed will be atuomatically reduced after fork lifting 500mm
/ Adjustable outer distance of forks within the range of 200-896mm
/ Battery capacity: 280Ah for 1.2t model, 340Ah for 1.6t model
/ Fork tilt forward / backward 3°/5°
/ Load backrest
/ 2.7m duplex mast with double lifting cylinders
/ Soft landing system
/ Multi-function tiller
/ Reach distance of fork:590mm

Options

/ Mast height: 2500-4500mm for duplex mast, 3500-5500mm for triplex mast
/ Various fork lengths
/ Sideshift move LH/RH:60mm

A Series High Range Stand-on Pallet Stacker With Reach Fork

				HANGCHA GROUP CO.,LTD.	
Distinguishing marks	1.1	Manufacturer			
	1.2	Manufacturer's type desigintion		CQDB12-AC2S-J* CQDB12-AZ3S-J	CQDB16-AC2S-J* CQDB16-AZ3S-J
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Standing	Standing
	1.5	Rated capacity/rated load	Q (kg)	1200	1600
	1.6	Load centre distance	c(mm)	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	442	442
	1.9	Wheelbase	y (mm)	1384	1406
Weight	2.1	Service Weight	kg	1870	2000
Tyres,chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane	Polyurethane
	3.2	Tyre size, front	mm	Φ230×75	Φ250×100
	3.3	Tyre size, rear	mm	Φ100×70	Φ100×70
	3.5	Wheels, number front / rear (x = driven wheels)		1×/4	1×/4
	3.6	Tread, front	b_{10} (mm)	0	0
	3.7	Tread, rear	b_{11} (mm)	1170	1170
Dimensions	4.1	Tilt of fork carriage forward/backward	α/β(°)	3/5	3/5
	4.2	Height ,mast lowered	h_1 (mm)	2040	2040
	4.4	Lift	h_3 (mm)	2700	2700
	4.5	Height, mast extended	h_4 (mm)	3752	3752
	4.8	stand height	h_7(mm)	185	185
	4.10	Height of wheel arms	h_8 (mm)	130	130
	4.19	Overall length	l_1 (mm)	2295	2295
	4.20	Length to face of forks	l_2 (mm)	1225	1225
	4.21	Overall width	b_1/b_2(mm)	800/1270	800/1270
	4.22	Fork dimensions	s/e/l (mm)	35/100/1070	35/100/1070
	4.24	Fork-carriage width	b_3(mm)	920	920
	4.25	Distance between fork-arms	b_5 (mm)	200-896	200-896
	4.26	Distance between wheel arms	b_4(mm)	1070	1070
	4.28	Reach distance	l_4(mm)	590	590
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	70	70
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	2701	2701
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	2739	2739
	4.35	Turning radius	Wa (mm)	1682	1682
	4.37	Length across wheel arms	l_7(mm)	1794	1794
Performance data	5.1	Travel speed, laden/unladen	km/h	5.5/6.0	5.5/6.0
	5.2	Lift speed, laden/unladen	m/s	0.100/0.130	0.090/0.120
	5.3	Lowering speed, laden/unladen	m/s	0.180/0.165	0.165/0.150
	5.4	Reaching speed , laden/unladen	m/s	0.115/0.165	0.115/0.165
	5.8	Max.gradeability , laden/unladen	%	6/10	6/10
	5.10	Service brake		Electromagnetic braking	Electromagnetic braking
Electric-engine	6.1	Drive motor rating S2 60 min	kW	1.5	3
	6.2	Lift motor rating at S3 15%	kW	3	3
	6.4	Battery voltage/nominal capacity K5	V/Ah	24/280	24/340
	6.5	Battery weight	kg	250	280
Addition data	8.1	Type of drive control		AC CURTIS AC ZAPI	AC CURTIS AC ZAPI
	10.5	Steering design		EPS	EPS

Note: * CE model

1.2t/1.6t Mast specification

Type	Fork lift height h_3	Mast lowered h_1	Mast extended h_4	Free lift height	Capacity	
					Load capacity at 600mm	
					1.2t	1.6t
	mm	mm	mm	mm	kg	kg
Wide view mast	2500	1940	3552	0	1200	1600
	2700	2040	3752	0	1200	1600
	3000	2190	4052	0	1200	1600
	3300	2340	4352	0	1200	1600
	3500	2440	4552	0	1200	1600
	3600	2490	4652	0	1200	1550
	3700	2540	4752	0	1200	1500
	3800	2590	4852	0	1200	1500
	4000	2790	5052	0	1200	1430
	4300	2940	5352	0	1150	1360
	4500	3040	5552	0	1100	1300
Wide view full free triplex mast	3500	1975	4552	923	1200	1600
	3700	2040	4752	988	1200	1500
	4000	2140	5052	1088	1200	1430
	4300	2240	5352	1188	1150	1360
	4500	2290	5552	1238	1100	1300
	4700	2390	5752	1338	1050	1220
	5000	2490	6062	1438	1000	1130
	5200	2540	6252	1488	930	1050
	5500	2640	6552	1588	850	950

RATED CAPACITIES AND LOAD CENTRES GRAPH

SUBTRACT 120kg WITH SIDESHIFTER

RATED LOAD WEIGHT

LOAD CENTRE POSITION

RATED CAPACITIES AND LOAD CENTRES GRAPH

SUBTRACT 150kg WITH SIDESHIFTER

RATED LOAD WEIGHT

LOAD CENTRE POSITION