Appearance

/ The worldwide popular, great-circle, streamlined surface modeling is applied, with smooth, beautiful, and elegant appearance.

Stability

/ The broad and solid chassis and steady reach mechanism, as well as the drive unit that is fixed at center, realize low gravity center, and guarantee sufficient stability of the truck.

Flexibility

/ The driving system that is located at rear part of chassis uses EPS (Electric Power Steering) technology, features low-speed and large torque. The 180-degree steering mode of standard configuration, make the truck flexible and convenient, and allow it turn easily even in confined space.

Comfort

- / Operating levers of ergonomic design, integrated console, all important operating parts are within the reach of your hands.
- / The mast of optimized design with wide view avoids blocking the sight of the operator, and large size of the fork shelf offers wider view.
- / The seat can be adjusted forward and backward, also with the function of vibration reduction.
- / The truck body with increased width and height offers larger operating space for hands and legs of the operator.
- / The new designed overhead guard structure allows the operator to observe the movement of load more clearly.

Maintenance

- / The fully-opened cover provides easy maintenance for motor, controller and transmission, braking, and hydraulic systems.
- / The battery compartment can be removed forward, so replacement or maintenance is very easy.



Wider view OHG



High-performance moto



Comfortable and convenient sea



Instrument can display the steering angle and direction Synchronously



ne steering wheel is extensible, so the perator can choose the best driving position.



ZHEJIANG HANGCHA IMP. & EXP. CO., LTD.

Factory site: 666 Xiangfu Road, Hangzhou, Zhejiang, China (311305)

Tel: +86-571-88926735 88926755 Fax: +86-571-88926789 88132890

sales@hcforklift.com www.hcforklift.com





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HANGCHA trucks conforto the European Safety Requirements.

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A Series Reach Truck

with capacities of 1,200 to 2,000kg



The World of Hangcha





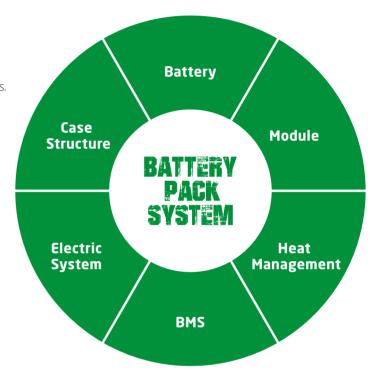




INNOVATIVE SOLUTIONS NEW POWER NOW

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 °C or above.
- / Adapted to low temperatures: Comes standard with an electrical heating feature, ensuring normal operation in low temperatures.
- / Quick charging: Can charge and operate at the same time, fully charged in 2hours.
- / 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.





Lead-acid batteries **8-10 hours 100%**

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-lon 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

Туре		CQD16-AC5-I	CQD18-AC5-I	CQD20-AC5-I		
Li-lon battery	V/Ah	80/271	80/271	80/271		
Titans charger		SLC-80100	SLC-80100	SLC-80100		

A Series Reach Truck

The reach truck is suitable for working in narrow passageway and confined space, with high lifting and load capacity, and is the ideal tool for loading, unloading, handling, and stacking in warehouse, supermarket, and workshop.



Reliability & Safety

- / Major electrical components such as controller, contactor, and power plug are all of foreign famous brands.
- / As a standard configuration, the emergency power off switch complies with European safety standards.
- / Electronic and hydraulic overload protection, power-failure lock up of fork(optional), and safe pedal.

Benefits of the AC Power System

- / The AC power system has high efficiency, full protection functions, powerful acceleration performance, sensitive and fast steering.
- / The brushless, maintenance-free AC motor has longer service life, and lower maintenance cost.



Advance

- / Three-phase AC technology is applied for driving and steering, AC technologies are available for lifting. Full AC power system has higher efficiency, and is free maintenance.
- / The MOSFET integrated controller guarantees smooth and accurate control on driving, steering and lifting, as well as superior speed regulation performance, with regenerative braking, reverse braking, anti-slipping on slope and other functions, resulting in more efficient, safer operations.
- / The LCD battery condition meter, timer, fault self-diagnosis meter, and display can not only display most important operating data, driving direction and location of driving wheels that are interactive with steering, but also realize accurate display in harsh environment.
- / The full AC truck is equipped with non-backlash, high pressure resistant, silent gear pump.
- / The full AC truck is equipped with stepless speed regulation for lifting operation, the mast lift top buffering, mast move forward/backward buffering, travelling speed and speed of mast move forward/backward will slow down automatically when the mast lifting high position, all of this can greatly improve the stability of the truck.
- / The CANBUS communication technology is applied to monitor motor speed, temperature, and other information in real time, realizing closed-loop control.
- / The truck has a triple braking mechanism, i.e. electronic braking (reverse regenerative braking), front wheel hydraulic braking, and electromagnetic parking braking.

High-performance Mast

- / The operator has wider view in the load direction.
- / Built-in sideshifter and fork tilting are standard configuration.
- / The mast made with imported steel channels and compact structural design has a maximum lifting height: 12500mm.
- / Height monitoring and lifting height limitation system are optional.





Standard Specification

- / PU (polyurethane) driving wheel and load wheels
- / High-capacity battery
- / 4 spools control valves
- / Stepless speed regulation for lifting operation
- / Arm cushion, and impact-proof head cushion
- / 3m duplex mast
- / Adjustable steering wheel
- / Front wheel protection hood
- / Safety pedal
- / 180-degree steering mode
- / Sideshifter
- / Fork tilting (2°/4°)
- / Lift top buffering (Triplex mast)
- / Mast move forward/backward buffering
- / Full AC control
- / Automatic speed reduction when the mast lifting high position (Triplex mast)
- / EPS (Electric Power Steering)
- / Automatic speed reduction at the corner

Options

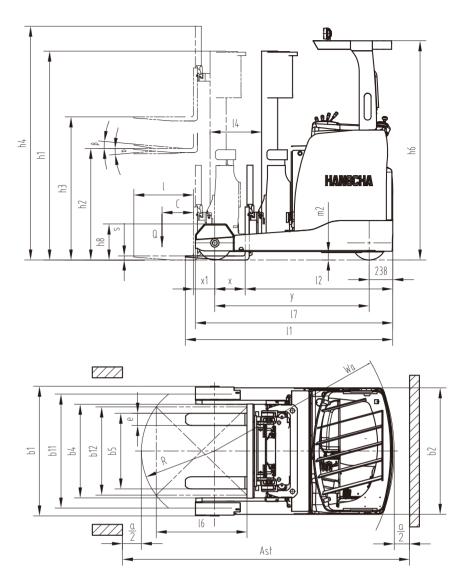
- / 2.7-5.0m duplex mast
- / 4.3-12.5m full-free triplex mast
- / Various fork lengths
- / Imported high-performance battery
- / Optional large capacity battery 420Ah, 560Ah
- / Full automatic high-frequency charger
- / Other attachments
- / Height monitoring system
- / Alarm lamp, rear headlamp or other lamps

A Series Reach Truck

1.1 Manufacturer								
12 Manufacture's type designation CQ012AD6 CQ014AD6 CQ016AD6 CQ018AD6 CQ01	HANGCHA GROUP CO.,LTD.							
13 Drive electric (battery or mains), diesel, petrol, fuel gas electric	CQD20-AC5							
1.8.1 Load distance, centre of drive axile to fork,mast reached forward y (mm) 1480	CQD20-AD6							
1.8.1 Load distance, centre of drive axie to forkmast reached forward x (mm) 203 203 203 233	electric							
1.8.1 Load distance, centre of drive axie to forkmast reached forward x (mm) 203 203 203 233	2000							
1.8.1 Load distance, centre of drive axie to forkmast reached forward x (mm) 203 203 203 233	600							
19 Wheelbase y mm 1480 148	305							
2.1 Service weight (including battery) Kg 3130 3130 3320 3330	233							
3.1 Tyres: solid rubber, superelastic, pneumatic, polyurethane	1550							
Section Sec	3340							
Section Sec	polyurethane							
1.00 1.136	Ø343×135							
1.00 1.136	Ø343×108							
4.1 Tit of mast/fork carriage forward/backward 0/β(°) 2/4 2/4 2/4 2/4 2/4 2/4 4.2	1x/2							
A2 Height, mast lowered	1144							
A4 Lift	2/4							
A.7 Height of overhead guard hs (mm) 2200	2100							
A	3000							
4.19 Overall length l1(mm) 2463 2463 2553 25	2200							
4.20 Length to face of forks 12 (mm) 1393 1393 1483	361							
4.25 Distance between fork-arms Ds (mm) 244-882 244-82 244-82 244-82 244-82 244-82 244-82 244-82 244-82 244-82 244-82 244-82 244-82	2553							
4.25 Distance between fork-arms bs (mm) 244-882 244-882 244-882 244-882 244-882 4.28 Reach distance ls (mm) 528 528 438 468 468 4.34.1 Aisle width for pallets 1000 x 1200 crossways Ast (mm) 2838 2838 2907 2907 2907 4.34.2 Aisle width for pallets 800 x 1200 lengthways Ast (mm) 2897 2897 2980 2980 2980 4.35 Turning radius Wa (mm) 1735 1735 1735 1735 1735 1735 1735 5 1735 5 1735 5 1735 5 1735 173	1483							
4.25 Distance between fork-arms bs (mm) 244-882 244-882 244-882 244-882 244-882 4.28 Reach distance l4 (mm) 528 528 438 468 468 4.34.1 Aisle width for pallets 1000 x 1200 crossways Ast (mm) 2838 2838 2907 2907 2907 4.34.2 Aisle width for pallets 800 x 1200 lengthways Ast (mm) 2897 2897 2980 2980 2980 4.35 Turning radius Wa (mm) 1735 1735 1735 1735 1735 1735 1735 1735	1286/1270							
4.28 Reach distance	40×122×1070							
A34.1 Aisle width for pallets 1000 x 1200 crossways Ast (mm) 2838 2838 2907 2907	244-882							
A_34_2 Aisle width for pallets 800 x 1200 lengthways	538							
4.35 Turning radius Wa (mm) 1735 1	2922							
4.37 Length across wheel arms 17 (mm) 1883 1883 1883 1913 183 183 183 1913 183 183 183 1913 183 183 183 1913 183	2984							
S.1 Travel speed,laden/unladen Km/h 10.2/10.2	1804							
6.1 Drive motor rating S2 60 min kW AC65 AC65 AC65 AC65	1983							
6.1 Drive motor rating \$2.50 min	10.2/10.2							
6.1 Drive motor rating S2 60 min kW AC65 AC65 AC65 AC65	0.310/0.530							
6.1 Drive motor rating S2 60 min kW AC65 AC65 AC65 AC65	0.420/0.480							
	10/15							
보면 62 Lift motor rating at S3 15% kW AC128 AC128 AC128 AC128	AC 6.5							
THE THE PARTY OF T	AC 12.8							
6.2 Lift motor rating at S3 15% kW AC128 AC128 AC128 AC128 Steering motor kW AC0.67 AC0.67 AC0.67 AC0.67	AC 0.67							
6.4 Battery voltage, nominal capacity K5 V/Ah 48/400 48/400 48/500 48/500	48/500							
6.5 Battery weight kg 666 666 855 855	855							
8.1 Type of drive control								
8.1 Type of drive control CURTIS Full AC / INMOTION Full AC 10.1 Operating pressure for attachments bar 140 140 165 185 10.7 Sound level at the driver's par according to EN / DIN 12 053 dB (A) 75 75 75 75 75	210							
10.7 Sound level at the driver's ear according to EN / DIN 12 053 dB (A) <75 <75 <75 <75	<70							

1.2t-2.0t Mast specification

Туре	Model	Lifting height h ₃	Mast lowered h1	Mast extended h ₄		Free lifting height hz		Tilting range		Load center@600mm					
				Without backrest	With backrest	Without backrest	With backrest	Forward	Backward	1.2t	1.4t	1.6t	1.8t	2.0t	
		mm	mm	mm	mm	mm	mm	(°)	(°)	kg	kg	kg	kg	kg	
Wide view duplex mast		2700	1950	3355	3665	340	340	2	4	1200	1400	1600	1800	2000	
		3000	2100	3655	3965	340	340	2	4	1200	1400	1600	1800	2000	
		3300	2250	3955	4265	340	340	2	4	1200	1400	1600	1800	2000	
		3500	2350	4155	4465	340	340	2	4	1200	1400	1600	1800	2000	
	8	3600	2400	4255	4565	340	340	2	4	1200	1400	1600	1800	2000	
	QAZOB	4000	2650	4655	4965	340	340	2	4	1200	1400	1600	1800	2000	
je.		4300	2790	4955	5265	340	340	2	4	1200	1400	1600	1800	2000	
e e		4500	2900	5155	5465	340	340	2	4	1200	1400	1600	1800	2000	
Mid		4800	3095	5495	5765	340	340	2	4	1200	1400	1600	1800	2000	
		5000	3195	5695	5965	340	340	2	4	1200	1400	1600	1800	2000	
st	steel)	4300	2085	4987	5265	1376	1120	2	4	1200	1400	1600	1800	2000	
		4500	2165	5170	5465	1495	1200	2	4	1200	1400	1600	1800	2000	
		4800	2265	5470	5765	1595	1300	2	4	1200	1400	1600	1800	2000	
		5000	2315	5670	5965	1596	1350	2	4	1200	1400	1600	1800	2000	
		5500	2490	6170	6465	1796	1525	2	4	1200	1350	1550	1750	1950	
		6000	2665	6670	6965	1995	1700	2	4	1200	1250	1450	1650	1850	
Ĕ		6500	2835	7170	7465	2136	1870	2	4	1100	1150	1350	1550	1750	
ä	e	7000	3020	7670	7965	2350	2055	2	4	1000	1050	1250	1450	1650	
Full free triplex mast	6	7500	3180	8170	8465	2510	2215	2	4	900	950	1150	1350	1550	
	QA20V (imported	8000	3350	8670	8965	2680	2385	2	4	850	900	1100	1300	1500	
		8500	3580	9170	9465	2910	2615	2	4	750	800	1000	1200	1400	
		9000	3800	9670	9965	3130	2835	2	4	650	700	900	1100	1300	
		9500	3970	10170	10465	3300	3005	2	4	550	600	800	1000	1200	
		10000	4100	10670	10965	3430	3135	2	4	450	500	700	900	1100	
		10500	4250	11170	11465	3580	3285	2	4	400	450	650	850	1050	
		11000	4450	11670	11965	3780	3485	2	4	300	350	550	750	950	
		11500	4700	12170	12465	4030	3735	2	4	150	200	400	600	800	
		12000	4900	12670	12965	4230	3935	2	4	50	100	300	500	700	
		12500	5150	13170	13465	4480	4185	2	4	\	\	150	350	550	



Ast=Wa+R+a=Wa+
$$\sqrt{(1_6-x)^2+(\frac{b_{12}}{2})^2}+a$$

