

A Series Stand-on Reach Truck

with capacities of 2,000 to 2,500kg

The World of Hangcha SINCE 1956





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.
 / Ouick charging.
- / 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.



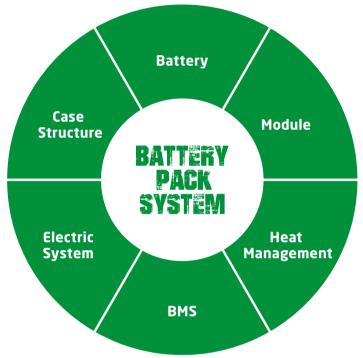
Li-Ion Battery Specification

Туре	CQD20-AC2S-I			
Battery voltage, capacity	V/Ah	48/271		
Titans charger		SLC-48100		









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. They are maintenance free and do not require a battery change when used for multi-shift operations.

CPD25-AC2S-I
48/271
SLC-48100

A Series Stand-on Reach Truck

The new A series 2.0-2.5t standing driving forward-moving type is a new product developed by the company for different market needs. The ergonomically-designed comfortable vehicle has wide operating vision and a stable control system, and is further optimized and improved in terms of configuration, parameter, performance, safety, cost, etc., making this product comparable to foreign brands and have obvious advantages when compared with other similar domestic products.



Comfort

- / Optimized ergonomic design shows the steering wheel, joystick and accelerator to the driver at the best distance, making the driving operations easier and more comfortable.
- / The newly-designed molded broad backrest is soft and comfortable, reducing operator fatigue.
- / Shimadzu's low-power multiway valve reduces operating force and improves comfort by 30%.
- / A new layout provides a larger operation space. The low pedals enable the operator to get on and off the vehicle more easily.
- / The imported LORD sensor enables high safety and makes operations to be adapted to road conditions.

Energy saving and high efficient

- / With equipment rationally arranged on the premise that the strength meets the requirements, the vehicle has less weight and cost and less energy consumption.
- / The hydraulic system is optimized to improve the lifting performance. The no-load lifting performance is increased by 23%, and the full-load lifting performance is increased by 22%.
- / The drive system uses a high speed ratio gearbox to make the motor require higher speed and less torque.
- / The combined LED lights (headlights + turn signal lights) have high brightness and low energy consumption.

Stability

- / Suspension control system efectively reduces the shake when turning, lifting and moving forward and backward.
- / The pump motor assembling on the rear side of the body makes the center of gravity moving backwards and improving stability.
- / Automatic speed control: Travel speed is controlled according to the lift height, providing stability and safety.

Maintenance

- AC drive and lifting systems with maintenance-free motors are used.
- / AC steering with a maintenance-free motor is provided.
- / The fully open door enables easy repair and maintenance.
- / The controller and multiway valve are provided on the front side of the vehicle body. Only the front sealing plate needs to be opened for maintenance.



Operator's compartmen[.]



Safe pedal: when the pedal is released, traveling is stopped, and only hydraulic operation is enabled



Charging plug inside operator's compartment, this eliminates the need to disconnect the plug from battery, enhancing ease of operation (Std.)



New designed mast and the large open steel roof provide super visibility and safety



Forks can tilt forward/backward for easy loading

Safety

- / An optimal four-link suspension mechanism forces the drive wheel and the auxiliary wheels, thereby reducing slipping of the drive wheel.
- / A disc mechanical brake and regenerative braking system make the truck safer and more reliable.
- / Turn speed is controlled to the turning radius, providing stable turning matched to the state of operation.
- / If the operator is not in the normal operating position, travel power is interrupted and load-handling (except lowering) operations are stopped.
- / The right leg of the OHG moves backwards to protect the driver's back in case of a collision.



The loading wheels with hydraulic braking make the braking distance shorter and safer



Standard Specification

- / Headlights (LED) + turn signal lights (LED) + alarm lights (LED)
- / Shimadzu's standard triple valve
- / AC driving (5kw) + AC lifting (11kw)
- / Electric steering system (AC 670W motor)
- / Fork descending buffering (cylinder buffering)
- / Suspension control system
- / Automatic turning deceleration
- / Side charge
- / Mechanical brake
- / Regenerative braking (reversing, neutral, braking)
- / Interlock switch
- / In-place switch
- / Standard battery configuration: 48/325Ah
- / USB charging port
- / Hydraulic braking (loading wheels)

Options

- / Blue lights, straight projection lights
- / Optional quadruple and quintuple (Shimadzu)
- / Skid control system
- / Fork camera
- / Altimeter
- / Code lock
- / Retroreflector
- / Fire extinguisher
- / Maximum battery capacity: 450Ah
- / Ascending buffering
- / Height selection
- / Descending locking valve
- / Side shift
- / Cigarette lighter
- / Smart module
- / Drive-in overhead guard

CQD20/25-AC2S							
	Tianneng	Zibo	Xunqi	Hawker	FAAM		
325 Ah	•	0	0	0	0		
375 Ah	0	0		0	0		
450 Ah	0						



COMFORTABLE DESIGN

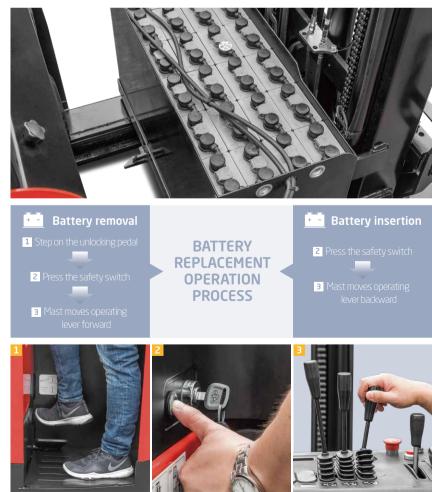
It's convenient for getting on/off.

Optimal lifting system

- / New optimal manufacturing process ensures the roller gap of the mast, making the mast sways smaller and the vehicle safer.
- / Add 2 safety functions: the mast moves backward to enable hydraulic buffer protection and reduce the speed in this position. It helps reduce the mast swaying when in a high position and makes the vehicle safer.
- / The optimized mast piping with an upper and lower layout mast improves vision of the mast (Triplex mast).
- / The forklift's sleeve structureboasts a simple structure, small mast thickness and light weight.

BATTERY REACH OUT SYSTEM

The battery can be reached out easily. It enables smooth battery maintenance, inspection and replacement.





Floor height: 285mm.





A series stand on reach truck 2.0-2.5t specification

	1.1	Manufacturer		HANGCHA GR	OUP CO.,LTD.		
	1.2	Manufacturer's type designation		CQD20-AC2S	CQD25-AC2S		
Distinguishing mark	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric		
ing	1.4	Operator Position		Stand On	Stand On		
ark ark	1.5	Rated capacity/rated load	Q (kg)	2000	2500		
a stin	1.6	Load centre distance	c (mm)	500	500		
	1.7	Load distance, centre of drive axle to fork	x (mm)	495	620		
	1.8	Load distance, centre of drive axle to fork,mast reached forward	X1 (mm)	180	180		
	1.9	Wheelbase	y (mm)	1500	1700		
Weight	2.1	Service weight (including battery)	Kg	2725	2760		
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane	Polyurethane		
	3.2	Tyre size, rear	mm	Ø343×135	Ø343×135		
ssis	3.3	Tyre size, front ×2	mm	Ø250×120	Ø250×120		
, cha	3.4	Tyre size,Caster ×2	mm	Ø150×85	Ø150×85		
Tyres, chassis	3.5	Wheels,number front/rear(×=driven wheels)		2/1×+2	2/1×+2		
Ê,	3.6	Tread width,front	b11(mm)	1074	1074		
	3.7	Tread width,rear	b12(mm)	685	685		
	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	3/5	3/5		
	4.2	Height, mast lowered	h1 (mm)	2045	2045		
	4.3	Lift	h₃ (mm)	3000	3000		
	4.4	Mast Extended height	h4 (mm)	3876	3876		
	4.5	Free lift	hz(mm)	105	105		
	4.6	Height of overhead guard	h₅ (mm)	2245	2245		
	4.7	Ground clearance, below mast	m2 (mm)	80	80		
suc	4.8	Height of support arms	h₀ (mm)	275	275		
Dimensions	4.9	Overall length	l1 (mm)	2245	2245		
Din	4.10	Length to face of forks	lz (mm)	1260	1335		
	4.11	Overall width	b1/b2(mm)	1194/1190	1194/1190		
	4.12	Fork dimensions ISO	s/e/l (mm)	40×122×920	40×122×920		
	4.13	Distance between fork-arms	b4/b5 (mm)	278-784	278-784		
	4.14	Reach distance	I4 (mm)	665	790		
	4.15	Aisle width for pallets 1100 x 1100 , clearance 200	Ast (mm)	2775	2880		
	4.16	Aisle width for pallets 1000 x 1200 crossways,clearance 200	Ast (mm)	2740	2860		
	4.17	Turning radius	Wa (mm)	1755	1950		
	5.1	Travel speed,laden/unladen	Km/h	10.5/10.5	10.5/10.5		
Le Le	5.2	Lift speed,laden/unladen	m/s	0.320/0.530	0.280/0.510		
ata	5.3	Lowering speed, laden/unladen	m/s	0.450/0.400	0.450/0.400		
Data	5.4	Reach speed, laden/unladen	m/s	0.110/0.110	0.110/0.110		
ĩ	5.5	Max. gradeability,laden/unladen	%	10/15	10/15		
	6.1	Drive motor rating S2 60 min	kW	AC 5	AC 5		
	6.2	Lift motor rating at S3 15%	kW	AC 5	AC 5		
gine	6.3	Steering motor	kW				
Electric- engine	6.4	Battery voltage, nominal capacity K5	V/Ah	AC 0.67	AC 0.67		
	6.5	Battery weight	kg	48/325 500	48/325 500		
	7.1		<u>~б</u>				
ta uon	7.1	Type of drive control Operating pressure for attachments	bar	CURTIS Full AC	CURTIS Full AC		
Addition data	<u> </u>			140	140		
A	7.3	Sound level at the driver's ear according to EN / DIN 12 053	dB (A)	<75	<75		

2.0~2.5t Mast Specification

Туре	Model	Lifting Mast	Mast extended h4	Free lifting height hz	Tilting range		Load capacity center at 500mm		
		height lowered h3 h1	With	With	Forward	Backward			
51			hı	backrest	backrest	FUIWAIU	Dackwaru	2.0t	2.5t
		mm	mm	mm	mm	(°)	(°)	kg	kg
	QAZ25M	2500	1795	3376	105	3	5	2000	2500
		2700	1895	3576	105	3	5	2000	2500
		3000	2045	3876	105	3	5	2000	2500
Wide view		3500	2295	4376	105	3	5	2000	2500
duplex mast		4000	2645	4876	105	3	5	2000	2500
		4300	2795	5176	105	3	5	2000	2400
		4500	2895	5376	105	3	5	1900	2400
		5000	3145	5876	105	3	5	1850	2300
	QAZ25N	4300	2040	5176	1164	3	5	2000	2500
		4500	2105	5376	1229	3	5	1900	2400
Full free		5000	2265	5876	1389	3	5	1800	2300
		5500	2445	6376	1569	3	5	1500	2150
triplex mast		6000	2615	6876	1739	3	5	1450	1950
		6500	2850	7376	1974	3	5	1300	1800
		7000	3070	7876	2194	3	5	700	1000

