

A Series Stand-on Reach Truck

with capacities of 1,500 to 1,800kg







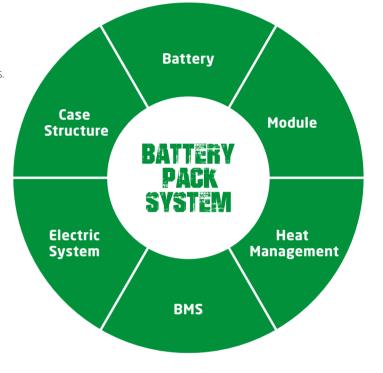




INNOVATIVE SOLUTIONS NEW POWER NOW

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.
- / 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.





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.

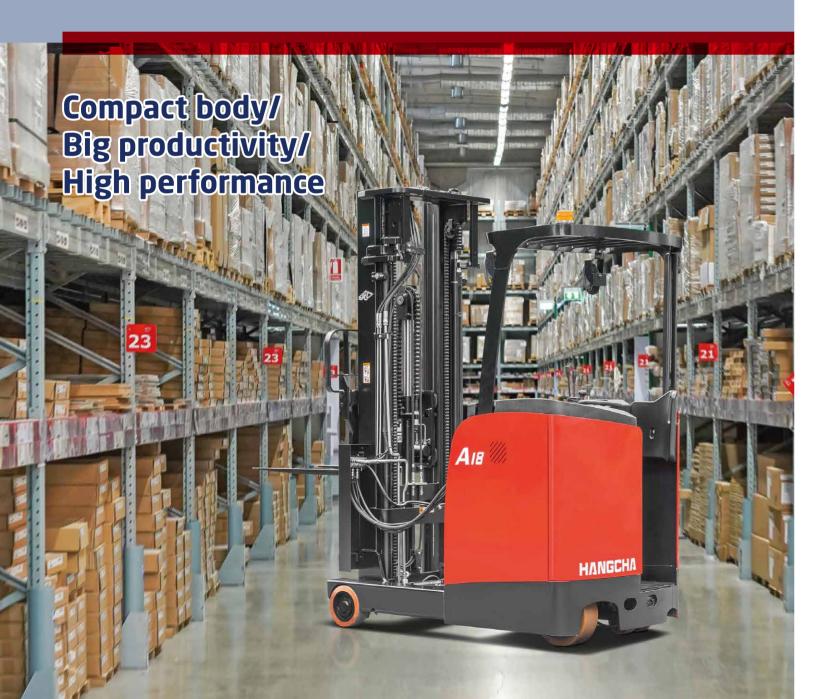
Li-Ion Battery Specification

Туре		CQD15-AC2S-I	CPD18-AC2S-I
Battery voltage, capacity	V/Ah	48/202*	48/202*
Option capacity	V/Ah	48/271	48/271
Titans charger		SLC-48100	SLC-48100

★: Available for cold storage

A Series Stand-on Reach Truck

The A series stand-on reach truck is a new-generation product developed by our company in response to different market needs. The truck has comfortable ergonomics, wide operating vision and a stable control system.



Comfort

- / Optimal ergonomic design. the steering wheel, operating lever and accelerator are positioned at the best distance to the driver, making the operation lighter more comfortable.
- / The newly designed large-area back support is soft and comfortable, reducing operator fatigue.
- / Use Shimadzu multi-way valves with low start force. And the comfort is increased by 30%.

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.

Reliability

- / The Curtis controller and CAN-bus communication provide safe and reliable.
- / The Shimadzu multi-way valve and gear pump provide higher efficiency and faster lifting speed.
- / EPS system with brushless technology making steering and operation easier and clearer.

Stability

- / Suspension control system effectively 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.



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



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 st



Operator's compartm



Forks can tilt forward/backward for easy loading

Maintenance

- / Traction and lifting system are all adopt maintenance-free AC motor.
- / The door can be fully opened for easy maintenance.
- / Battery reach out system is easy for change the battery.
- / The controller and multi-way valve are located on the front side of the body, and it's only necessary to open the front sealing plate during maintenance.





Energy saving and efficient

- / Hangcha's advanced technology providing long working time,cost-effective by reducing truck weight by 16%.
- / The hydraulic system has been optimized to improve the lifting performance. The lifting speed was increased by 23% without load, and the lifting speed was increased by 22% with full load.
- / The traction system adopts large speed ratio gearbox, which makes the motor speed higher and the torque less.
- / The excellent climbing performance increases the climbing performance by 48% without load and climbing performance by 15% with full load.

Standard specification

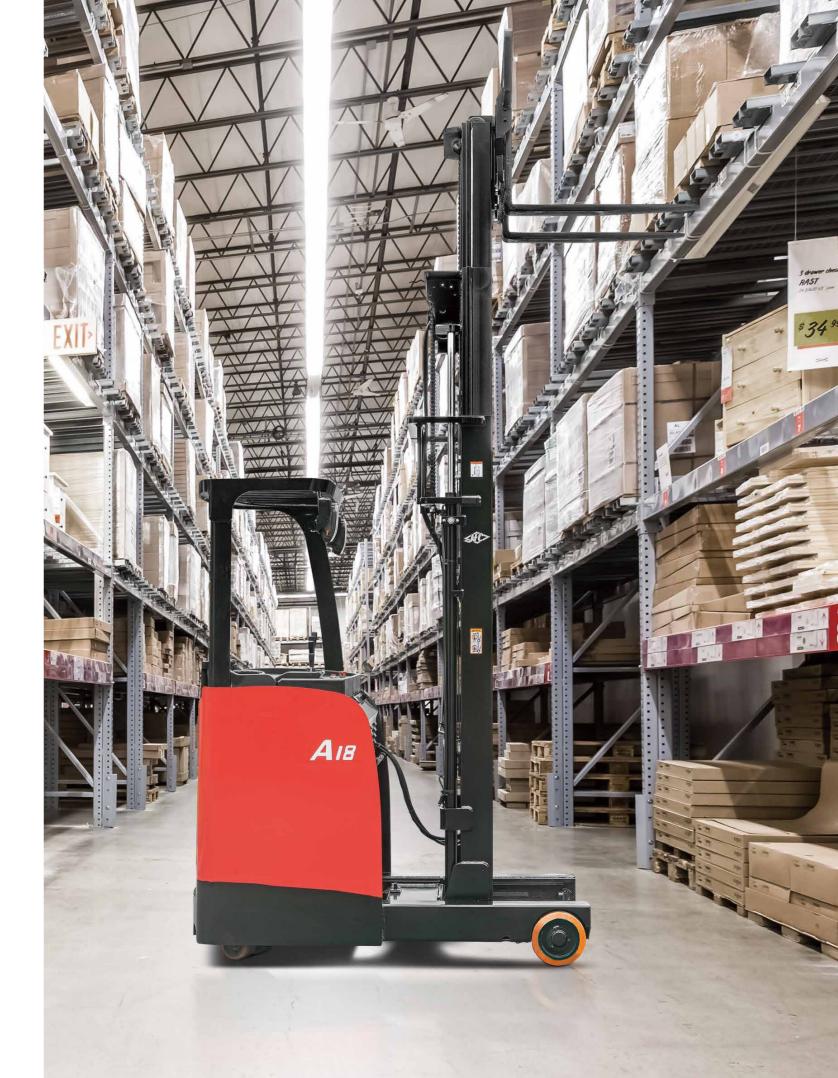
- / Headlights (LED) + turn signals (LED)
- / Shimadzu triple valves
- / AC driving (4kw) + AC lifting (9kw)
- / EPS (Electric Power Steering) system
- / Soft landing
- / Suspension control system
- / Speed control at corner
- / Mechanical brakes
- / Regenerative braking (reverse, neutral, brake)
- / Battery standard: 48V/280Ah
- / USB charge port

Options

- / Warning lights, blue lights
- / Quadruple and quintuplet
- / Anti-rollback system
- / Fork camera / Altimeter
- / Password lock
- / Mirror
- / Fire extinguisher
- / Maximum capacity of the battery: 370Ah
- / Lift top buffering
- / Height level selection
- / Lowering lock valve

280 Ah								
280 Ah	CQD15/18-AC2S							
290 Ah		Tianneng	Zibo	Xunqi	Hawker			
300 Ah	280 Ah	•	0	0				
313 Ah	290 Ah			0				
325 Ah O O O	300 Ah	0	0		0			
SESTAIL 0 0 0	313 Ah			0				
250 ()	325 Ah	0	0	0	0			
350 Ah 0 0 0	350 Ah	0	0	0				
375 Ah O O	375 Ah	0	0		0			

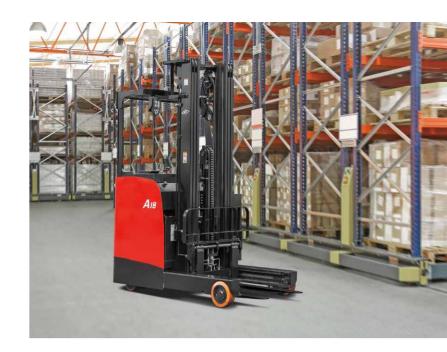
• Std. O Opt.





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.





A Series 1.5~1.8t Stand-on Reach Truck Specification

		Manufacturer				
	1.1	Manufacturer		HANGCHA GR		
	1.2	Manufacturer's type designation		CQD15-AC2S	CQD18-AC2S	
0.0	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric	
Distinguishing mark	1.4	Operator Position		Stand On	Stand On	
nark	1.5	Rated capacity/rated load	Q (kg)	1500	1800	
istir	1.6	Load centre distance	c (mm)	500	500	
	1.7	Load distance, centre of drive axle to fork	x (mm)	375	525	
	1.8	Load distance, centre of drive axle to fork,mast reached forward	x1 (mm)	175	175	
	1.9	Wheelbase	y (mm)	1350	1500	
Weight	2.1	Service weight (including battery)	Kg 2430		2460	
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane	Polyurethane	
	3.2	Tyre size, rear	mm	Ø343×135	Ø343×135	
sissis	3.3	Tyre size, front ×2	mm	Ø250×105	Ø250×105	
Tyres, chassis	3.4	Tyre size,Caster ×2	mm	Ø150×85	Ø150×85	
yres	3.5	Wheels,number front/rear(×=driven wheels)		2/1×+2	2/1×+2	
F.	3.6	Tread width,front	b11(mm)	986	986	
	3.7	Tread width,rear	b12(mm)	645	645	
	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	3/5	3/5	
	4.2	Height, mast lowered	h1 (mm)	1995	1995	
	4.3	Lift	h₃ (mm)	3000	3000	
	4.4	Mast Extended height	h4 (mm)	3886	3886	
	4.5	Free lift	hz(mm)	100	100	
	4.6	Height of overhead guard	he (mm)	2240	2240	
	4.7	Ground clearance,below mast	m2 (mm)	80	80	
suo	4.8	Height of support arms	hs (mm)	275	275	
insic	4.9	Overall length	lı (mm)	2146	2146	
Dimensions	4.10	Length to face of forks	Iz (mm)	1226	1226	
_	4.11	Overall width	b1/b2(mm)	1094/1090	1094/1090	
	4.12	Fork dimensions ISO	s/e/I (mm)	35×100×920	35×100×920	
	4.13	Distance between fork-arms	b4/b5 (mm)	230-720	230-720	
	4.14	Reach distance	I4 (mm)	550	700	
	4.15	Aisle width for pallets 1100 x 1100 , clearance 200	Ast (mm)	2710	2745	
	4.16	Aisle width for pallets 1000 x 1200 crossways,clearance 200	Ast (mm)	2666	2715	
	4.17	Turning radius	Wa (mm)	1600	1750	
	5.1	Travel speed,laden/unladen	Km/h	9.5/10.5	9.5/10.5	
9	5.2	Lift speed,laden/unladen	m/s	0.320/0.550	0.300/0.530	
man	5.3	Lowering speed,laden/unladen	m/s	0.440/0.400		
Performanc Data	5.4	Reach speed,laden/unladen	m/s		0.440/0.400	
Pe	5.5	Max. gradeability,laden/unladen	%	0.110/0.110	0.110/0.110	
-	6.1	Drive motor rating S2 60 min	kW	15/20	15/20	
	6.2	Lift motor rating at S3 15%		AC 4	AC 4	
Electric- engine		Steering motor	kW	AC 9	AC 9	
Elec	6.3	-	kW	DC 0.45	DC 0.45	
-	6.4	Battery voltage, nominal capacity K5	V/Ah	48/280	48/280	
	6.5	Battery weight	kg	485	485	
ion a	7.1	Type of drive control		CURTIS Full AC	CURTIS Full AC	
Addition data	7.2	Operating pressure for attachments	bar	140	140	
4	7.3	Sound level at the driver's ear according to EN / DIN 12 053	dB (A)	<75	<75	

1.5~1.8t Mast Specification

Туре	Model	Lifting Mast height lowered	Mast	Mast extended h4	Free lifting height hz Tilting range		Load capacity at 500mm		
			lowered	With	With backrest	Forward	Backward		
			h1	backrest		Torward		1.5t	1.8t
		mm	mm	mm	mm	(°)	(°)	kg	kg
	QAZ18M	2500	1745	3386	100	3	5	1500	1800
Wide view duplex mast		2700	1845	3586	100	3	5	1500	1800
		3000	1995	3886	100	3	5	1500	1800
		3500	2245	4386	100	3	5	1500	1800
		4000	2595	4886	100	3	5	1500	1800
		4500	2845	5386	100	3	5	1500	1800
		5000	3095	5886	100	3	5	1250	1550
Full free triplex mast	QAZ18N	4500	2165	5376	1179	3	5	1500	1800
		5000	2315	5876	1339	3	5	1250	1550
		5500	2490	6376	1519	3	5	1150	1450
		6000	2665	6876	1689	3	5	900	1200

