

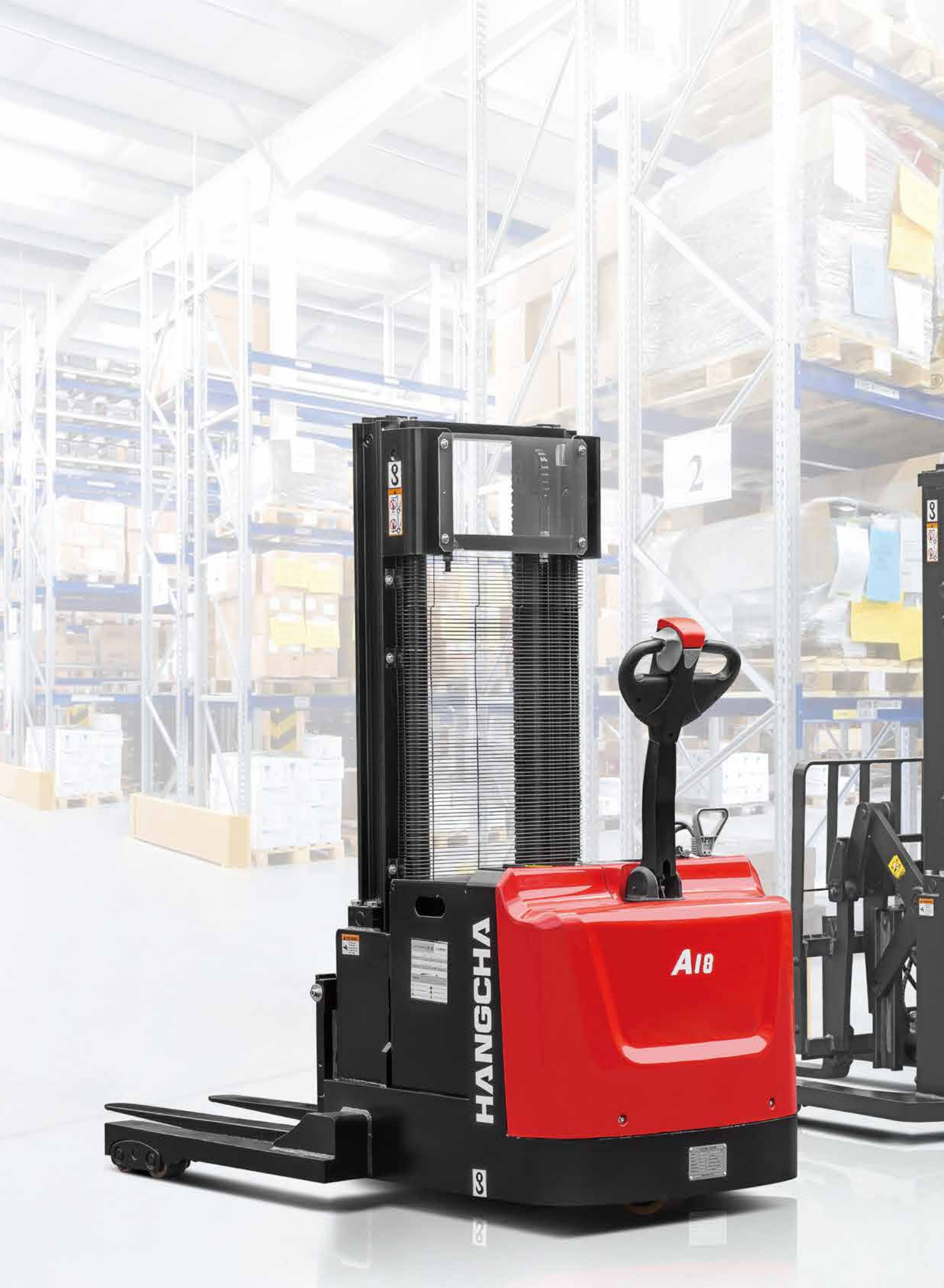


A Series Walkie Reach Stacker

with capacities of 3000lbs

The World of Hangcha





HANGCHA

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Walkie Stacker Series

The Walkie Reach, Straddle, or Counterbalance Stacker series can handle dock-to-stock and everything in between. The Hangcha Walkie Stacker product's advantageous head-length and multi-function, control handle with EPS (Electric Power Steering) system gives you incredible load handling control with excellent maneuverability. The standard creep speed feature can take your operator's materials handling capabilities to their full potential.

The Walkie Stacker series can match your most demanding operational requirements.



A Series Walkie Reach Stacker

The walkie reach stacker 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**



High Performance

- / Standard configuration of EPS (Electric Power Steering) offers easier and more flexible operation.
- / The AC travel motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and is brushless, and maintenance-free.
- / The latest CURTIS AC control system realizes accurate and stable control, and higher efficiency.
- / The CANBUS bus structure makes communication of the entire machine faster and more reliable.
- / Regenerative brake of the truck prevents it from sliding on a slope.
- / Tiller, switches, plug connectors, meters, and other important parts are all of top brands in the world, with excellent performance and reliable quality.
- / Standard configuration of fork backward and forward tilt function, and load backrest realize safer loading and unloading of goods.

Maintenance

- / The brushless, maintenance-free AC 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.



FREI multi-function tiller

- 1: Forks move forward / backward
- 2: Forks lifting / lowering
- 3: Forks tilt forward / backward



Travel speed is lowered automatically when fork is lifted to specified height



The structure of rotary load wheel offers the truck better passing ability



Mast tilting function is easy for entry in/out the pallet

Reliability

- / Three-support-point and low-gravity-center design and the high-strength steel plate framed structure feature large residual load bearing capacity, and long service life.
- / All wires and 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.

Safety

- / The function of lowering speed automatically as steering angle increases is a standard configuration.
- / Three types of braking function - release braking, reverse braking, and emergency braking - can ensure safety of traveling.
- / Anti-sliding function on slope can ensure safety of operation.
- / The emergency reversing button at top of the tiller can avoid the driver from injury effectively in case of emergency during backward driving of the truck.
- / The function of intelligent declining buffer reduces lowering speed automatically when the fork is lowered to a height less than 3.9" from ground, which provides effective protection for goods.

Comfort

- / All movements of the fork can be regulated with stepless speed, with more accurate operation and control, and more stable handling of goods.
- / Imported tiller has beautiful appearance, and function buttons for comfortable operation.
- / The standard configuration of creep speed driving function allows the truck to move at slow speed more conveniently, and can stack goods even in confined space.
- / Compact truck body and large rounded corner design make the truck suitable for operation in narrow space.
- / Battery side roll out can realize easy and fast replacement of battery (optional).

Standard specification

- / AC drive motor
- / CURTIS AC drive motor controller + oil pump motor controller
- / EPS system
- / Automatic deceleration at turns
- / Proportional speed regulation for all fork operations
- / Multi-function battery condition meter
- / High-performance load wheels
- / Fork length 42"
- / Adjustable outer distance of forks within the range of 7.9-33.5"
- / Forward and backward tilt of the fork, by 3° and 5° respectively
- / Load backrest
- / 106.3" duplex mast with double lifting cylinders
- / Mast intelligent declining buffer
- / Multi-function tiller
- / Speed limit when fork is at elevated location
- / Horn
- / Key switch
- / Creep speed function
- / Emergency reverse
- / Forward extension distance of fork 23.2"

Options

- / Mast of various heights (see mast parameter list for details)
- / Various fork lengths
- / Sideshifter
- / Battery side extraction
- / Preezer
- / Mast shield of PC plate



Model		CQDB14-AC1-JNA	
Voltage		V	
Battery Compartment	"X" Max.	mm (in)	810(31.9)
	"Y" Max.	mm (in)	327(12.9)
	"Z" Max.	mm (in)	593(23.3)
Batt.Wt.	Maximum	Kg (lb)	500(1102)
	Minimum	Kg (lb)	400(882)

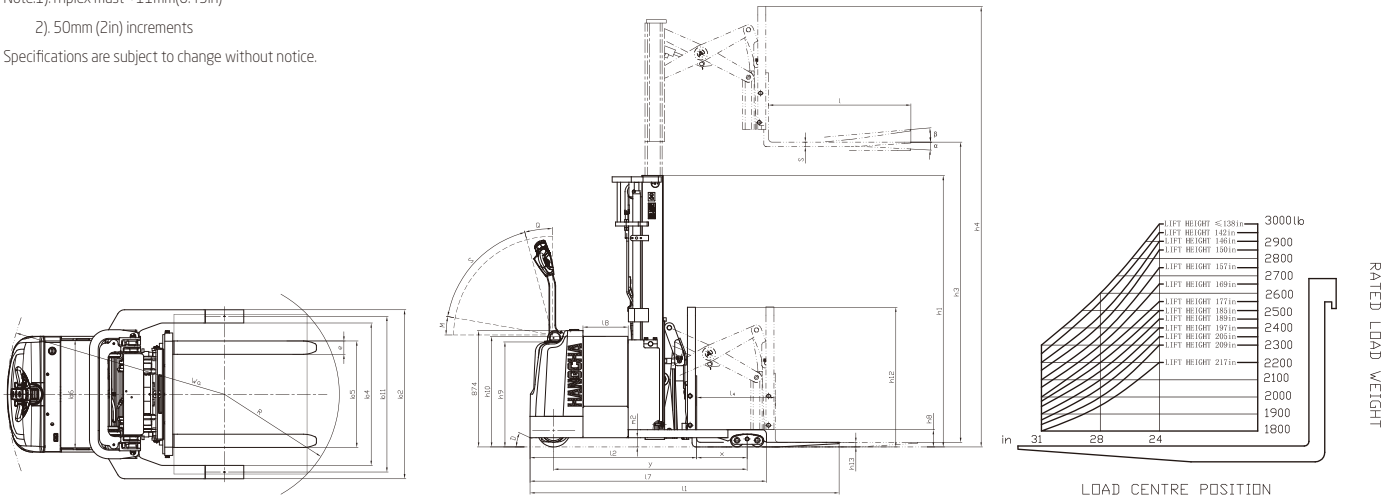
A Series Walkie Reach Stacker Specification

Distinguishing marks	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.
		HCFA Model		WRS14
	1.2	Manufacturer's type designation		CQDB14-AC1-JNA
	1.3	Drive:electric(battery or mains),diesel,petrol,fuel gas		Battery
	1.4	Operator type:hand,pedestrian,standing,seated,order-picker		Walkie
	1.5	Rated capacity/rated load	Q (kg/lb)	1400/3000
	1.6	Load centre distance	c (mm/in)	600/24
	1.8	Load distance, centre of drive axle to fork	x (mm/in)	379/15
	1.9	Wheelbase	y (mm/in)	1451/57
Weights	2.1	Service Weight without battery	kg/lb	2200/4850
Wheels, Chassis	3.1	Tyres:solid rubber,superelastic,pneumatic,polyurethane		PU
	3.2	Tyre size, front	mm/in	Φ250×100 / Φ9.8×3.9
	3.3	Tyre size, rear	mm/in	Φ100×70 / Φ3.9×2.8
	3.5	Wheels, number front / rear (x = driven wheels)		1×/4
	3.7	Tread, rear	b ₁₁ (mm/in)	1170/46.1
Basic Dimensions	4.1	Tilt of mast forward/backward	α/β(°)	3/5
	4.2	Height,mast lowered	h ₁ (mm/in)	2040/80.3
	4.4	Lift	h ₃ (mm/in)	2700/106.3
	4.5	height, mast extended	h ₄ (mm/in)	3752/147.7
	4.9	Height of tiller in drive position min./max.	h ₁₄ (mm/in)	755/1475 (29.7/58.1)
	4.10	Height of wheel arms	h ₈ (mm/in)	130/5.1
	4.15	Height, lowered	h ₁₃ (mm/in)	35/1.4
	4.19	Overall length	l ₁ (mm/in)	2323 ¹⁾ /91.5 ¹⁾
	4.20	Length to face of forks	l ₂ (mm/in)	1253 ¹⁾ /49.3 ¹⁾
	4.21	Overall width	b ₁ /b ₂ (mm/in)	870/1270 (34.3/50)
	4.22	Fork dimensions	s/e/l (mm/in)	35/100/1070 (1.4/3.9/42.1)
	4.24	Fork-carriage width	b ₃ (mm/in)	920/36.2
	4.25	Distance between fork-arms	b ₅ (mm/in)	210~850 (8.3~33.5)
	4.26	Distance between wheel arms	b ₄ (mm/in)	1070~1270 (42~50) ²⁾
	4.28	Reach distance	l ₄ (mm/in)	590/23.2
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm/in)	70/2.8
	4.35	Turning radius	W _a (mm/in)	1632/64.3
	4.37	Length across wheel arms	l ₇ (mm/in)	1777/69.96
		Battery compartment width	l ₈ (mm/in)	340/13.4
		Battery compartment length	b ₆ (mm/in)	817/32.2
		Battery floor Height w/optional rollers	mm/in	240/9.4
	Load backrest height	h ₁₂ (mm/in)	1050/41.3	
	Grade clearance	D(%)	46.57	
	Top vertical braking Arc	Q(°)	15	
	Bottom braking Arc	M(°)	10	
	Handle Operating Arc	S(°)	65	
Performance Data	5.1	Travel speed, laden/unladen	kph(mph)	5.5/5.5 (3.4/3.4)
	5.2	Lift speed, laden/unladen	m/s(ft/min)	0.095/0.135 (18.66/26.58)
	5.3	Lowering speed, laden/unladen	m/s(ft/min)	0.190/0.150 (37.38/29.52)
	5.8	Max.gradeability, laden/unladen	%	8/13
	5.10	service brake		Electromagnetic braking
Electric-motor	6.1	Drive motor rating S2 60 min.	kW/hp	3.0/4.0
	6.2	Lift motor rating at S3 15%	kW/hp	3.0/4.0
	6.4	Battery voltage/nominal capacity K5	V/Ah	24/525
		Minimum battery weight	kg/lb	400/882
		Maximum battery weight	kg/lb	500/1102
Others	8.1	Type of drive control		AC CURTIS
	10.5	Steering design		Electric power steering
	10.7	sound pressure level at the driver's seat	dB(A)	70

Note:1)Triplex mast +11mm(0.43in)

2) 50mm (2in) increments

Specifications are subject to change without notice.



Mast Specification

Type	Fork lift height h ₃		Mast lowered h ₁		Mast extended h ₄		Free lift height		Capacity	
									Load capacity at 600mm/24in	
									CQDB14-AC1-JNA	
	mm	in	mm	in	mm	in	mm	in	kg	lb
Wide view mast	2500	98.4	1940	76.4	3552	139.8	95	3.7	1361	3000
	2700	106.3	2040	80.3	3752	147.7	95	3.7	1361	3000
	3000	118.1	2190	86.2	4052	159.5	95	3.7	1361	3000
	3300	129.9	2340	92.1	4352	171.3	95	3.7	1361	3000
	3500	137.8	2440	96.1	4552	179.2	95	3.7	1361	3000
	3600	141.7	2490	98.0	4652	183.1	95	3.7	1338	2950
	3700	145.7	2540	100.0	4752	187.1	95	3.7	1315	2900
	3800	149.6	2590	102.0	4852	191.0	95	3.7	1293	2850
	4000	157.5	2790	109.8	5052	198.9	95	3.7	1247	2750
Wide view full free triplex mast	4300	169.3	2940	115.7	5352	210.7	95	3.7	1202	2650
	4500	177.2	3040	119.7	5552	218.6	95	3.7	1157	2550
	3500	137.8	1975	77.8	4552	179.2	923	36.3	1361	3000
	3700	145.7	2040	80.3	4752	187.1	988	38.9	1315	2900
	4000	157.5	2140	84.3	5052	198.9	1088	42.8	1247	2750
	4300	169.3	2240	88.2	5352	210.7	1188	46.8	1202	2650
	4500	177.2	2290	90.2	5552	218.6	1238	48.7	1157	2550
	4700	185.0	2390	94.1	5752	226.5	1338	52.7	1134	2500
	5000	196.9	2490	98.0	6062	238.7	1438	56.6	1089	2400
5200	204.7	2540	100.0	6252	246.1	1488	58.6	1066	2350	
5500	216.5	2640	103.9	6552	258.0	1588	62.5	998	2200	

Aisle requirement-right angle stack-CQDB14-AC1-JNA

Aisle requirement-right angle stack①		Load length				
Load width	36(915)	in(mm)	36(915)	40(1016)	42(1067)	48(1220)
	40(1016)	in(mm)	92.0(2337)	95.1(2416)	96.8(2458)	101.9(2589)
	42(1067)	in(mm)	93.3(2370)	96.3(2447)	97.9(2487)	103.0(2615)
	48(1220)	in(mm)	94.0(2388)	97.0(2463)	98.5(2503)	103.5(2628)
		in(mm)	96.2(2444)	99.0(2514)	100.4(2551)	105.2(2671)

①Add a minimum of 12in (300mm) for maneuverability.



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