

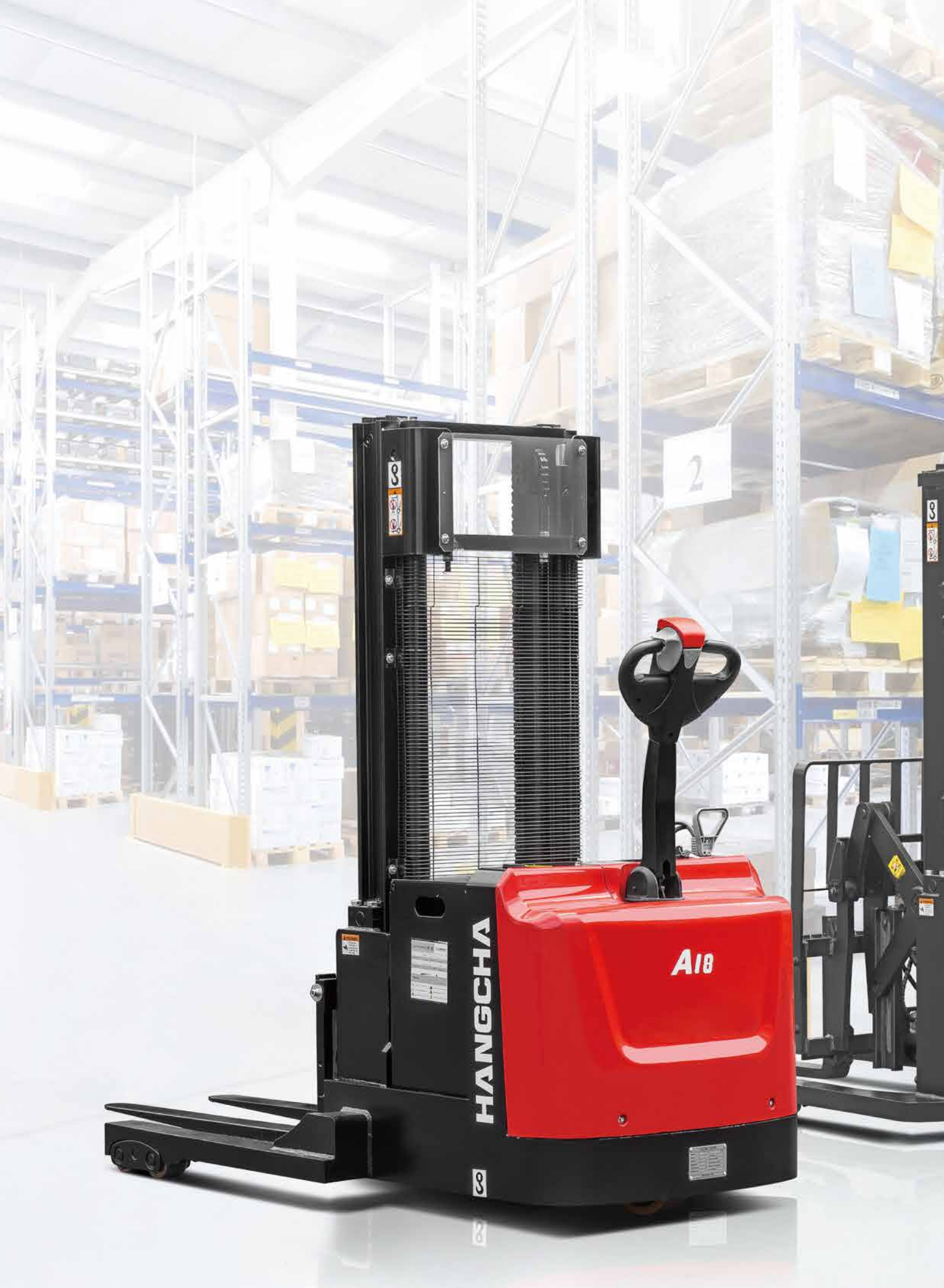


A Series Walkie Reach Stacker

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) |

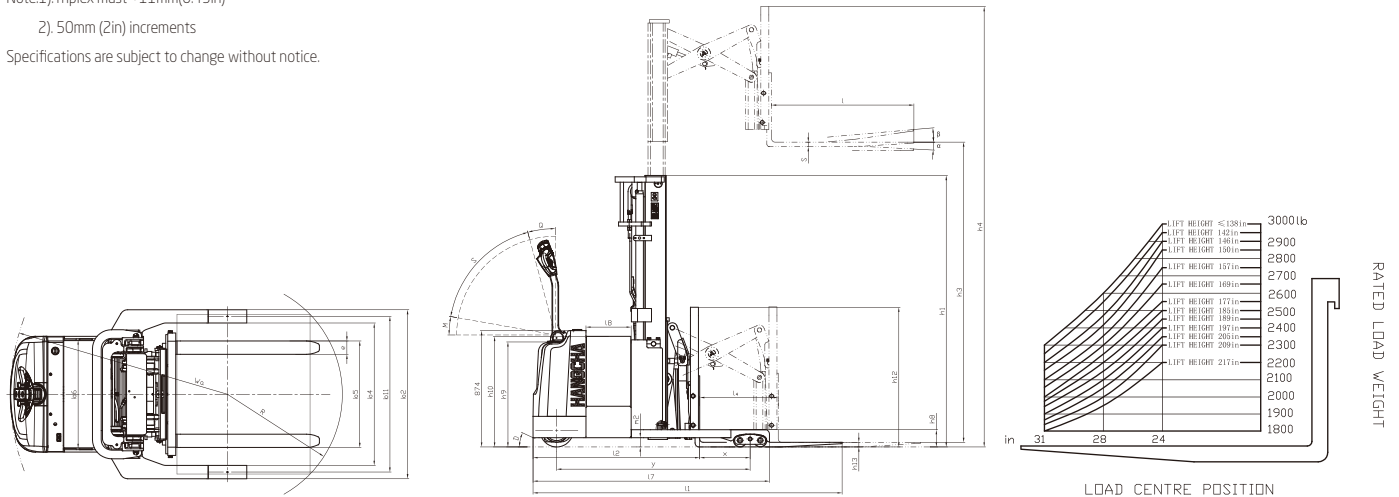
A Series Walkie Reach Stacker Specification

| | | | | |
|----------------------|--------------------------|--|--|--|
| 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.



HC FORKLIFT AMERICA CORPORATION

Company address:

10405-A Granite Street Charlotte,
NC 28273

Toll Free: 888-652-8395

Phone: 980-888-8335

Fax: 980-888-8336

america@hcforklift.com

www.hcforkliftamerica.com



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