

A Series High Range Stand-on Pallet Stacker With Mast Move

| Distinguishing marks | HANGCHA GROUP CO.,LTD. | | | |
|----------------------|---|--|-----------------------|-------------------------|
| | 1.1 | Manufacturer | CDD12-AC1S-M | CDD16-AC1S-M |
| 1.2 | Manufacturer's type designation | CDD12-AZ3S-M | CDD16-AZ3S-M | |
| 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | Electric | Electric | |
| 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | Standing | Standing | |
| 1.5 | Rated capacity/rated load | Q(kg) | 1200 | |
| 1.6 | Load centre distance | c(mm) | 500 | |
| 1.8 | Load distance, centre of load axle to fork | x (mm) | 450 | |
| 1.9 | Wheelbase | y (mm) | 1341 | |
| Weight | 2.1 | Service weight | kg | 1800 |
| Tyres, chassis | 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | Polyurethane | Polyurethane |
| | 3.2 | Tyre size, front | mm | φ230×75 |
| 3.3 | Tyre size, rear | mm | φ210×85 | |
| 3.4 | Tyre size, Additional wheel | mm | φ125×50 | |
| 3.5 | Wheels, number front/rear(≠driven wheels) | | 1×+2/2 | |
| 3.6 | Tread, front | b10 (mm) | 497 | |
| 3.7 | Tread, rear | b11 (mm) | 981 | |
| Dimensions | 4.1 | Tilt of fork carriage forward/backward | α/β(°) | 3/5 |
| | 4.2 | Height, mast lowered | h1 (mm) | 1930 |
| | 4.4 | Lift | h3 (mm) | 2700 |
| | 4.5 | Height, mast extended | h4 (mm) | 3655 |
| | 4.8 | Stand height | h7(mm) | 170 |
| | 4.10 | Height of wheel arms | h8 (mm) | 226 |
| | 4.19 | Overall length | l1 (mm) | 2202 |
| | 4.20 | Length to face of forks | l2 (mm) | 1132 |
| | 4.21 | Overall width | b1/b2(mm) | 1040/1074 |
| | 4.22 | Fork dimensions | s/e/ (mm) | 35/100/1070 |
| | 4.24 | Fork-carriage width | b3(mm) | 902 |
| | 4.25 | Distance between fork-arms | bs (mm) | 200-750 |
| | 4.26 | Distance between wheel arms | b4(mm) | 772 |
| | 4.28 | Reach distance | l4(mm) | 590 |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 55 |
| | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 2617 |
| | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 2654 |
| | 4.35 | Turning radius | Wa (mm) | 1600 |
| | 4.37 | Length across wheel arms | l7(mm) | 1704 |
| Performance data | 5.1 | Travel speed, laden/unladen | km/h | 5.5/6.0 |
| | 5.2 | Lift speed, laden/unladen | m/s | 0.140/0.200 |
| | 5.3 | Lowering speed, laden/unladen | m/s | 0.190/0.155 |
| | 5.4 | Reaching speed, laden/unladen | m/s | 0.100/0.100 |
| | 5.8 | Max.gradeability, laden/unladen | % | 6/10 |
| | 5.10 | Service brake | | Electromagnetic braking |
| Electric-engine data | 6.1 | Drive motor rating S2 60 min | kw | 1.5 |
| | 6.2 | Lift motor rating at S3 15% | kw | 3 |
| | 6.4 | Battery voltage/nominal capacity K5 | V/Ah | 24/280 |
| | 6.5 | Battery weight | kg | 280 |
| | Addition data | 8.1 | Type of drive control | |
| | | | | AC ZAPI |
| 10.5 | | Steering design | | EPS |

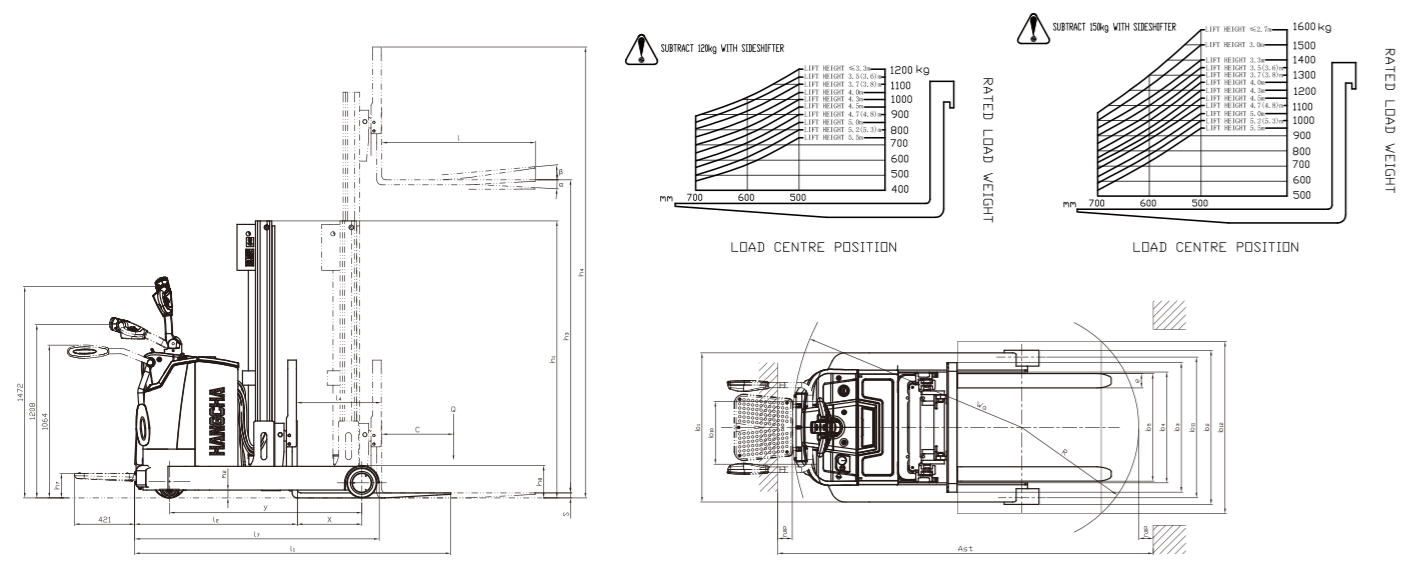
1.2t/1.6t Mast specification

| Type | Fork lift height h3 | Mast lowered h1 | Mast extended h4 | Free lift height | Capacity | |
|----------------------------------|---------------------|-----------------|------------------|------------------|------------------------|------|
| | | | | | Load capacity at 500mm | |
| Wide view mast | mm | mm | mm | mm | 1.2t | 1.6t |
| | 2000 | 1580 | 2955 | 0 | 1200 | 1600 |
| | 2500 | 1830 | 3455 | 0 | 1200 | 1600 |
| | 2700 | 1930 | 3655 | 0 | 1200 | 1600 |
| | 3000 | 2080 | 3955 | 0 | 1200 | 1500 |
| | 3300 | 2230 | 4255 | 0 | 1200 | 1400 |
| | 3500 | 2330 | 4455 | 0 | 1150 | 1350 |
| | 3600 | 2380 | 4555 | 0 | 1150 | 1350 |
| | 3700 | 2430 | 4655 | 0 | 1100 | 1300 |
| | 3800 | 2480 | 4755 | 0 | 1100 | 1300 |
| Wide view full free triplex mast | 4000 | 2680 | 4955 | 0 | 1050 | 1250 |
| | 4300 | 2830 | 5255 | 0 | 1000 | 1200 |
| | 4500 | 2930 | 5455 | 0 | 950 | 1150 |
| | 3500 | 1875 | 4455 | 920 | 1150 | 1350 |
| | 3700 | 1940 | 4655 | 985 | 1100 | 1300 |
| | 4000 | 2040 | 4955 | 1085 | 1050 | 1250 |
| | 4300 | 2140 | 5255 | 1185 | 1000 | 1200 |
| | 4500 | 2190 | 5455 | 1235 | 950 | 1150 |
| | 4700 | 2290 | 5655 | 1335 | 900 | 1100 |
| | 5000 | 2390 | 5965 | 1435 | 850 | 1050 |
| 5200 | 2440 | 6155 | 1485 | 800 | 1000 | |
| 5500 | 2540 | 6455 | 1585 | 750 | 950 | |



A Series High Range Stand-on Pallet Stacker With Mast Move

with capacities of 1,200 to 1,600kg



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The World of Hangcha



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The truck combines benefits of regular stacker and counterbalanced stacker. It can be used for non-standard pallets, enclosed pallets, and enclosed shelves. The mast can be retracted into truck body, which reduces passage width required for operation significantly, and the stacker is an ideal vehicle for operation in narrow passage. Cutting-edge AC control technology applied for the truck offers excellent performance, comfortable operation, safety and reliability, and low maintenance cost.

Easy/ Efficiency/ Economy



High Performance

- / EPS(Electric Power Steering) is standard specification, which provides flexible operation.
- / Pump motor realize proportional control all operation of fork by the controller, thus more accurate fork operation.
- / The AC driving motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and is brushless, and maintenance-free.
- / The latest CURTIS AC / ZAPI AC control system realizes accurate, stable, and efficient control.
- / Regenerative brake of the truck prevents it from sliding on a slope.
- / Switches, plug connectors, meters, and other important parts are all imported from abroad, with excellent performance and reliable quality.
- / Standard featured fork tilting and load backrest realize safer loading and unloading of goods.
- / The hydraulic power unit features low noise, small vibration, and stable and reliable lifting and lowering.

Reliability

- / Four-pivots and low-gravity-center design and the high-strength steel plate framed structure feature large residual load capacity, and long service life.
- / All plug connectors are imported and waterproof, and all cables have reliable protection, which increases reliability of electrical system significantly.
- / Non-contact proximity switch features long service life and reliable operation.
- / The mast is made of H-shaped steel channels, which offer better rigidity and stability in comparison with C-shaped channels.
- / Reach track of mast is made of high-strength steel channels, with longer service life.
- / Power plug is fastened to truck body, which can avoid damage of plug due to impact when battery is lifted for installation.
- / Flexible connections of the battery can avoid disconnection fault of battery because of lasting vibration.

Maintenance

- / The brushless, maintenance-free AC driving 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.

Safety

- / Traveling speed will be automatically reduced after fork lifting 500mm.
- / Turning speed is automatically reduced when steering.
- / The integrated stamping molded guardrail offers better protection for the operator.
- / Release braking, reverse braking and emergency braking can ensure safety of traveling.
- / Anti-sliding function on slope can ensure safety of operation.
- / The belly button on top of operating handle can avoid the driver from injury effectively.
- / The soft landing system reduces lowering speed automatically when height from ground to fork is less than 100mm, which provides effective protection for goods.

Comfort

- / The vibration-reduction design of the pedal reduces fatigue of long-duration operation.
- / Operating tiller has beautiful appearance, and function buttons for comfortable operation.
- / The standard configuration of tortoise speed driving function allows the truck to move at slow speed more easily.
- / Optimized mast structure design offers excellent field of view for operations, which is easy for access and exit pallet.

Options

- / Mast height: 2000-4500mm for duplex mast, 3500-5500mm for triplex mast
- / Various fork lengths
- / Sideshift move LH/RH ±100mm



Standard specification

- / AC driving motor
- / CURTIS AC / ZAPI AC controller
- / Controller for pump motor
- / EPS (Electric Power Steering) system
- / Automatic deceleration at turns
- / Proportional speed regulation for all fork operations
- / Pedal and guardrail
- / Emergency power off switch
- / Multi-function battery condition meter
- / High-performance loading wheels, additional wheels
- / Fork length 1070mm
- / Adjustable outer distance of forks within the range of 200-750mm
- / Fork tilt forward / backward: 3° / 5°
- / Load backrest
- / 2.7m duplex mast with double lifting cylinders
- / Soft landing system
- / Multi-function tiller
- / Traveling speed will be automatically reduced after fork lifting 500mm
- / Reach distance of fork: 590mm
- / Battery capacity: 280Ah for 1.2t model, 340Ah for 1.6t model



Fork tilt F/R: 3° / 5°



EPS (Electric Power Steering) is standard specification



Cover can be opened fully



Multi-function tiller