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## A Series Electric Forklift Truck

with capacities of 1,000 to 3,500kg

*The World of Hangcha*



# Move freely, lift freely

The newest generation A series 1-3.5t electric counter balance truck is new product series of HANGCHA. The totally new designed outline, safety, comfortable and reliability are fully improved, and the whole truck's performance is also increased.



# Appearance

Applied advanced new designing method, world famous designing company designed, make the eye catchable stream outline of the truck chassis. Small dimension, simple appearance, and metal material applied for the exposed parts, all provide robust construction of the A series.

# Power Train



# Stability

Advanced parallel layout of drive motor and lower located battery up to chassis bottom provide good stability to the truck.



# Intelligent

- / First-class R&D and testing facility.
- / First-class production quality management system.
- / First-class manufacturing facility.
- / First-class environment and control.



# Comfortable Operation

### Ergonomic

Easy to see dashboard is relocated to overhead, no restriction of the operator's visibility. The operator can monitor the truck operation at a glance.



### Soft landing

In addition to the soft landing system, the soft lifting system is adopted (front lifting cylinders of triplex mast and full free dup-lex mast), as a result, the noise and shock of the mast significantly decreases.



### Seat

The extra foot space is provided to reduce operator fatigue significantly. The new wide-open, non-slip step makes getting in and out easy and safe.



### EPB

Electronic Parking Brake, it provides the safe and rapid brake performance. More particularly, turn on the function automatically under different working situation.



# Advanced

High frequency MOSFET controller provides accurate control of travelling, lifting, and better adjustable performance, and better matches the motor. Regenerative braking, reverse current braking and anti-slide on slop function guarantee the operation safety.

Multi functions big LED dashboard provides running hours, battery power, and self diagnosis functions, and with high accuracy even in bad environment.

Regenerative braking is more energy saving and efficiency during truck's deceleration, direction changing, and driving on down-wards slope.

C3/  
C4  
system



CURTIS big LED dashboard.  
Non-handset Operation



Imported high performance, and  
new generation AC controller

Z3/  
Z4  
system



ZAPI dashboard



ZAPI controller

1. Low center of gravity provides good turning stability, and better operator's driving comfort. 150mm adjustable distance of seat provides better operator's comfort of different operators.
2. Soft landing system is applied for A series. When the forks lower to 60-100mm to ground, the soft landing system is auto operated, and to avoid the forks dashing against the ground. New designed broad view mast provides better forward visibility.
3. Easy to see LED dashboard provides friendly interaction.
4. Low noise, no exhaust emission, and low energy consumption, all meet environment friendly requirement.



# Service Ability

Full open battery cover, easy for battery service easy opened counter weight cover, to protect internal controller to avoid water and dust World famous brand electronics are applied in motor controller, contactor, power plug, emergency switch, dashboard, and accelerators.

Overloaded protection system is applied for electronics and hydraulics.

CE certificate is available.



The cover below  
control panel  
are fully closed



Side battery changing  
solution is applied for  
heavy and long time  
application



Battery cover with auto  
lock spring for easy  
battery service and  
replacing, and clean the  
oil tank



Full opened engine  
hood



Easy opened  
counterweight cover is  
to protect the internal  
controllers to avoid water  
and dust



Protective roof

Accessory

| Standard Features                                                                   | Options                                |
|-------------------------------------------------------------------------------------|----------------------------------------|
| / High efficiency AC driving motor                                                  | / Side way battery change              |
| / Special for truk's lifting motor                                                  | / Big capacity Chinese made battery    |
| / Multi-functions dashboard                                                         | / Cold store application               |
| / Full electronic controlled travelling, lifting and steering                       | / High performance import battery      |
| / Front lighting system, turning indicator, LED combined three colors's rear lights | / Battery charger                      |
| / Big dimension rubber pad                                                          | / Rear lighting system                 |
| / Sheet meatl stamping made front and rear bottom plate                             | / Front dual tyre                      |
| / Sheet metal stamping made left and right cover and battery cover                  | / SE tyre                              |
| / Reversing beeper                                                                  | / Non-marking tyre                     |
| / Full hydraulic steering                                                           | / Left and right rear view mirror      |
| / Storage box                                                                       | / Reversing hand grip with horn button |
| / Soft landing system                                                               | / Wide fork carriage                   |
| / Standard forks in red                                                             | / Other dimension forks                |
| / 3m duplex wide view mast                                                          | / Duplex mast with full free lift      |
| / Tow coupling                                                                      | / Triplex mast                         |
| / Center located rear view mirror                                                   | / Integrated side shift                |
| / Suspension seat with higher OHG                                                   | / Other attachments                    |
| / Turning speed is automatically reduced when steering for Model 2.0~3.5t           | / OPS                                  |
| / The cover below control panel are fully closed                                    | / Blue spot light                      |
| / Dashboard is relocated to overhead, no restriction of the operator's visibility   | / Other specification on demand        |
| / EPB: Electronic Parking Brake                                                     |                                        |

Color Selection

|  | Color NO.<br>STD. Yellow            |  | Color NO.<br>STD. Red                 |
|-------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|
|  | Color NO.<br>RAL2000 Yellow Orange  |  | Color NO.<br>HC6024 Traffic Green     |
|  | Color NO.<br>RAL7032 Pebble Grey    |  | Color NO.<br>RAL6029 Mint Green       |
|  | Color NO.<br>RAL5018 Truquoise Blue |  | Color NO.<br>PANTONE 584C Grass Green |

A Series 1.0-3.5t Electric Forklift Specification

| Distinguishing mark | 1.1    | Manufacturer                                                    |            | HANGCHA GROUP CO.,LTD.      |                       |                       |                             |                       |                         |                       |
|---------------------|--------|-----------------------------------------------------------------|------------|-----------------------------|-----------------------|-----------------------|-----------------------------|-----------------------|-------------------------|-----------------------|
|                     | 1.2    | Manufacturers type designation                                  |            | CPD10-AC3/C4/ 23/24-E       | CPD15-AC3/C4/ 23/24-E | CPD18-AC3/C4/ 23/24-E | CPD20-AC3/C4/ 23/24-E       | CPD25-AC3/C4/ 23/24-E | CPD30-AC3/C4/ 23/24-E   | CPD35-AC3/C4/ 23/24-E |
|                     | 1.3    | Drive: electric (battery or mains), diesel, petrol, fuel gas    |            | electric                    | electric              | electric              | electric                    | electric              | electric                | electric              |
|                     | 1.4    | Operator type: hand, pedestrian, standing, seated, order-picker |            | seated                      | seated                | seated                | seated                      | seated                | seated                  | seated                |
|                     | 1.5    | Load capacity/rated load                                        | Q (kg)     | 1000                        | 1500                  | 1750                  | 2000                        | 2500                  | 2500                    | 3000                  |
|                     | 1.6    | Load centre distance                                            | c (mm)     | 500                         | 500                   | 500                   | 500                         | 500                   | 500                     | 500                   |
|                     | 1.8    | Load distance, centre of drive axle to fork                     | x (mm)     | 406                         | 406                   | 406                   | 455                         | 455                   | 455                     | 475                   |
|                     | 1.9    | Wheelbase                                                       | y (mm)     | 1380                        | 1380                  | 1380                  | 1485                        | 1485                  | 1625                    | 1625                  |
|                     | 2.1    | Service Weight                                                  | kg         | 2940                        | 2940                  | 3090                  | 3700                        | 4180                  | 4580                    | 5050                  |
| Weight              | 2.2    | Axle loading, laden front/rear                                  | kg         | 3900/540                    | 3900/540              | 4300/590              | 5016/684                    | 5920/760              | 6335/725                | 7160/890              |
|                     | 2.3    | Axle loading, unladen front/rear                                | kg         | 1353/1587                   | 1353/1587             | 1440/1650             | 1628/2072                   | 1780/2400             | 2130/2450               | 2424/2626             |
|                     | 3.1    | Tyres: solid rubber, superelastic, pneumatic, polyurethane      |            | pneumatic                   | pneumatic             | pneumatic             | pneumatic                   | pneumatic             | pneumatic               | super elastic         |
| Tyres, chassis      | 3.2    | Tyre size, front                                                |            | 6.00 - 9                    | 6.00 - 9              | 21x8 - 9              | 23x9 - 10                   | 23x9 - 10             | 23x9 - 10               | 23x10 - 12            |
|                     | 3.3    | Tyre size, rear                                                 |            | 5.00 - 8                    | 5.00 - 8              | 5.00 - 8              | 18x7 - 8                    | 18x7 - 8              | 18x7 - 8                | 200/50-10             |
|                     | 3.5    | Wheels, number front rear (x = driven wheels)                   |            | 2x/2                        | 2x/2                  | 2x/2                  | 2x/2                        | 2x/2                  | 2x/2                    | 2x/2                  |
|                     | 3.6    | Tread, front                                                    | b10 (mm)   | 888                         | 888                   | 938                   | 1058                        | 1058                  | 1058                    | 1068                  |
|                     | 3.7    | Tread, rear                                                     | b11 (mm)   | 897.5                       | 897.5                 | 897.5                 | 960                         | 960                   | 960                     | 960                   |
|                     | 4.1    | Tilt of mast/fork carriage forward/backward                     | α/β(°)     | 5/10                        | 5/10                  | 5/10                  | 5/10                        | 5/10                  | 5/10                    | 5/10                  |
|                     | 4.2    | Height, mast lowered                                            | h1 (mm)    | 1976                        | 1976                  | 1976                  | 2006                        | 2006                  | 2006                    | 2186                  |
| Dimensions          | 4.3    | Free lift                                                       | h2 (mm)    | 145/135/135                 | 145/135/135           | 145/135/135           | 140                         | 140                   | 140                     | 145                   |
|                     | 4.4    | Lift                                                            | h3 (mm)    | 3000                        | 3000                  | 3000                  | 3000                        | 3000                  | 3000                    | 3000                  |
|                     | 4.5    | Height, mast extended                                           | h4 (mm)    | 3955                        | 3955                  | 3955                  | 4056                        | 4056                  | 4056                    | 4152                  |
|                     | 4.7    | Height of overhead guard STD.                                   | h6 (mm)    | 2130                        | 2130                  | 2130                  | 2155                        | 2155                  | 2190                    | 2190                  |
|                     |        | Height of overhead guard OPT.                                   | h6 (mm)    | 2050                        | 2050                  | 2050                  | 2075                        | 2075                  | 2110                    | 2110                  |
|                     | 4.8    | Seat height                                                     | h7 (mm)    | 1045                        | 1045                  | 1045                  | 1070                        | 1070                  | 1070                    | 1070                  |
|                     | 4.12   | Coupling height                                                 | h10 (mm)   | 275                         | 275                   | 275                   | 303                         | 303                   | 303                     | 303                   |
|                     | 4.19   | Overall length                                                  | l1 (mm)    | 3018                        | 3018                  | 3018                  | 3412                        | 3412                  | 3552                    | 3572                  |
|                     | 4.20   | Length to face of forks                                         | l2 (mm)    | 2098                        | 2098                  | 2098                  | 2342                        | 2342                  | 2482                    | 2502                  |
|                     | 4.21   | Overall width                                                   | b1 (mm)    | 1120                        | 1120                  | 1138                  | 1265                        | 1265                  | 1265                    | 1265                  |
|                     | 4.22   | Fork dimensions                                                 | s/e/l (mm) | 35/120/920                  | 35/120/920            | 35/120/920            | 40/122/1070                 | 40/122/1070           | 40/122/1070             | 45/125/1070           |
|                     | 4.23   | Fork carriage DIN 15 173 --- ISO 2328, class/type A,B           |            | ISO2328 2A                  | ISO2328 2A            | ISO2328 2A            | ISO2328 2A                  | ISO2328 2A            | ISO2328 2A              | ISO2328 3A            |
|                     | 4.24   | Fork-carriage width                                             | b3 (mm)    | 1072                        | 1072                  | 1072                  | 1118                        | 1118                  | 1118                    | 1200                  |
|                     | 4.25   | Distance between fork-arms                                      | b5 (mm)    | 240/1000                    | 240/1000              | 240/1000              | 240/1038                    | 240/1038              | 240/1038                | 290/1100              |
|                     | 4.31   | Ground clearance, laden, below mast                             | m1 (mm)    | 100                         | 100                   | 100                   | 112                         | 112                   | 112                     | 115                   |
|                     | 4.32   | Ground clearance, centre of wheelbase                           | m2 (mm)    | 110                         | 110                   | 110                   | 120                         | 120                   | 125                     | 125                   |
|                     | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways                   | As1 (mm)   | 3506                        | 3506                  | 3506                  | 3745                        | 3745                  | 3885                    | 3905                  |
|                     | 4.34.2 | Aisle width for pallets 800 x 1200 Lengthways                   | As1 (mm)   | 3706                        | 3706                  | 3706                  | 3945                        | 3945                  | 4085                    | 4105                  |
|                     | 4.35   | Turning radius                                                  | Wa (mm)    | 1900                        | 1900                  | 1900                  | 2090                        | 2090                  | 2230                    | 2230                  |
|                     | 4.36   | Internal turning radius                                         | b13 (mm)   | 620                         | 620                   | 680                   | 730                         | 730                   | 730                     | 730                   |
| Performance data    | 5.1    | Travel speed, laden/unladen                                     | km/h       | 14/14                       | 14/14                 | 13.5/14               | 14/14                       | 14/14                 | 14/14                   | 12/13                 |
|                     | 5.2    | Lift speed, laden/unladen                                       | m/s        | 0.29/0.44                   | 0.29/0.44             | 0.285/0.44            | 0.28/0.44                   | 0.23/0.43             | 0.23/0.43               | 0.25/0.4              |
|                     | 5.3    | Lowering speed, laden/unladen                                   | m/s        | 0.3/0.41                    | 0.3/0.41              | 0.275/0.42            | 0.285/0.42                  | 0.215/0.41            | 0.215/0.41              | 0.26/0.39             |
|                     | 5.5    | Drawbar pull, laden/unladen                                     | N          | 9000 /10000                 | 9000 /10000           | 9500/11000            | 12000/12500                 | 16000/17000           | 16000/17000             | 20000 /21000          |
|                     | 5.6    | Max. Drawbar pull, laden/unladen                                | N          | 11000                       | 11000                 | 12000                 | 14000                       | 18000                 | 18000                   | 22000                 |
|                     | 5.7    | Gradeability, laden/unladen                                     | %          | 12/13                       | 12/13                 | 12/13                 | 11/12                       | 11/12                 | 11/12                   | 11/12                 |
|                     | 5.8    | Max. gradeability, laden/unladen                                | %          | 15/16                       | 15/16                 | 15/16                 | 13/14                       | 13/14                 | 13/14                   | 13/14                 |
|                     | 5.9    | Acceleration time, laden/unladen (0-10m)                        | s          | 5.3/5.0                     | 5.3/5.0               | 5.3/5.1               | 5.2/4.6                     | 5.3/4.7               | 5.3/5                   | 5.3/5                 |
|                     | 5.10   | Service brake                                                   |            | Hydraulic                   | Hydraulic             | Hydraulic             | Hydraulic                   | Hydraulic             | Hydraulic               | Hydraulic             |
|                     |        | Parking brake                                                   |            | Electric                    | Electric              | Electric              | Electric                    | Electric              | Electric                | Electric              |
| Electric engine     | 6.1    | Drive motor rating S2 60 min                                    | kW         | 8 AC                        | 8 AC                  | 8 AC                  | 11 AC                       | 11 AC                 | 15AC                    | 15 AC                 |
|                     | 6.2    | Lift motor rating at S3 15%                                     | kW         | 8.2 DC/8.6 AC/8.2 DC/8.6 AC |                       |                       | 8.6 DC/8.6 AC/8.6 DC/8.6 AC |                       | 10 DC/10 AC/10 DC/10 AC |                       |
|                     | 6.3    | Battery acc.to DIN 43 531/35/36 A,B,C,no                        |            | no                          | no                    | no                    | no                          | no                    | no                      | no                    |
|                     | 6.4    | Battery voltage, nominal capacity K5                            | V/Ah       | 48/420                      | 48/420                | 48/420                | 48/630                      | 48/630                | 80/500                  | 80/500                |
|                     | 6.5    | Battery weight                                                  | kg         | 760                         | 760                   | 760                   | 1050                        | 1050                  | 1530                    | 1530                  |
|                     |        | Min. battery weight                                             | kg         | 700                         | 700                   | 700                   | 930                         | 930                   | 1200                    | 1200                  |
|                     |        | Max. battery weight                                             | kg         | 900                         | 900                   | 900                   | 1200                        | 1200                  | 1550                    | 1550                  |
|                     |        | Battery dimensions                                              | l/b/h(mm)  | 980×465×780                 | 980×465×780           | 980×465×780           | 1028×570×780                | 1028×570×780          | 1028×710×780            | 1028×710×780          |
|                     | 6.6    | Energy consumption acc. to VDI cycle                            | kWh/h      | 4.4                         | 4.4                   | 4.6                   | 5.0                         | 5.8                   | 6.5                     | 6.7                   |
| Addition data       | 8.1    | Type of drive control                                           |            | MOSFET/AC                   |                       |                       |                             |                       |                         |                       |
|                     | 9.1    | Manufacturer                                                    |            | CURTIS/CURTIS/ZAPI/ZAPI     |                       |                       |                             |                       |                         |                       |
|                     | 10.1   | Operating pressure for attachments                              | bar        | 145                         | 145                   | 145                   | 175                         | 175                   | 175                     | 175                   |
|                     | 10.2   | Oil volume for attachments                                      | l/min      | 65                          | 65                    | 65                    | 65                          | 65                    | 65                      | 65                    |
|                     | 10.3   | Hydraulic Tank - capacity (drain & refill)                      | liter(gal) | 22                          | 22                    | 22                    | 22                          | 22                    | 22                      | 24                    |
|                     | 10.7   | Sound pressure level at the driver’s seat                       | dB (A)     | 72                          | 72                    | 73                    | 73                          | 74                    | 74                      | 74                    |
|                     | 10.8   | Towing coupling, type DIN 15170                                 |            | ø24 Pin                     | ø24 Pin               | ø24 Pin               | ø24 Pin                     | ø24 Pin               | ø24 Pin                 | ø24 Pin               |
|                     |        |                                                                 |            |                             |                       |                       |                             |                       |                         |                       |
|                     |        |                                                                 |            |                             |                       |                       |                             |                       |                         |                       |

AC3: means Curtis AC traveling system with DC Pump system, semi-AC system

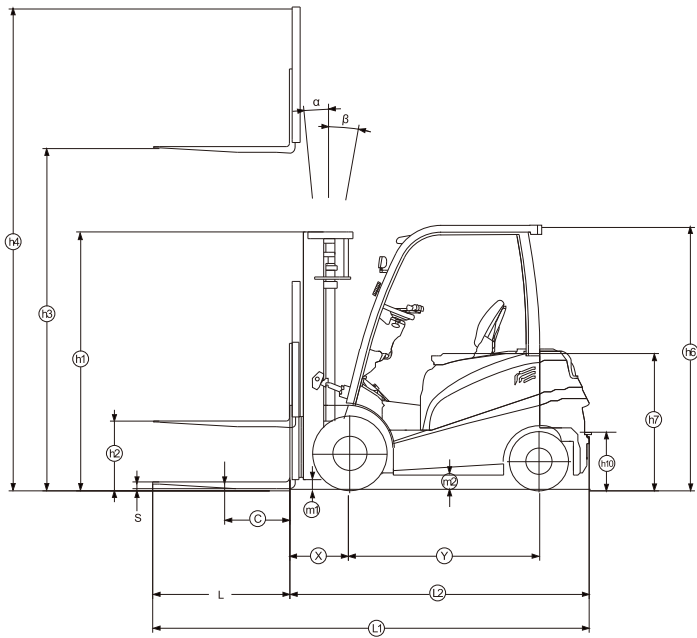
AC4: means Curtis AC traveling system with AC Pump system, full-AC system

AZ3: means ZAPI AC traveling system with DC Pump system, semi-AC system

AZ4: means ZAPI AC traveling system with AC Pump system, full-AC system

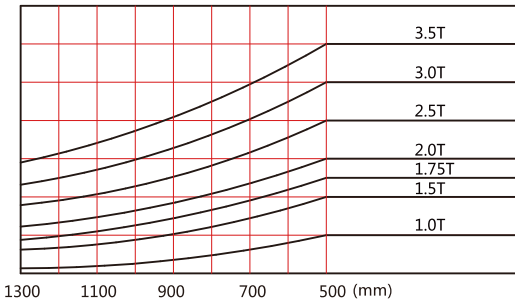
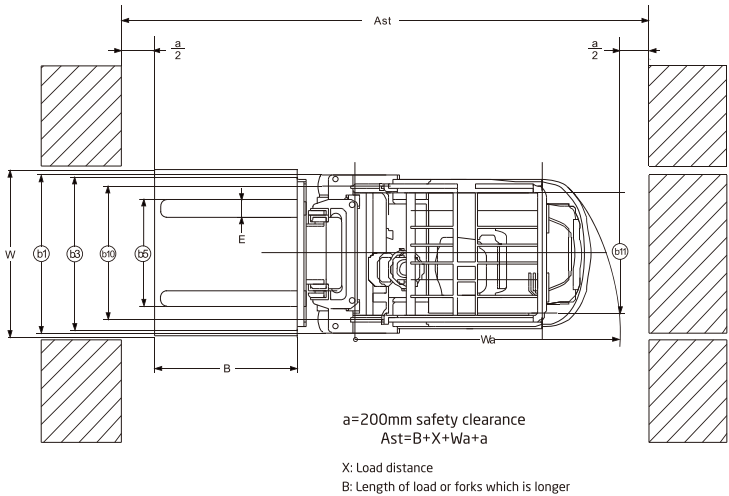
1.0~1.8t A Series Mast Specification

| Type                           | Model | Lifting height | Lowered overall height | Overall height |                  | Free lifting height |                  | Tilting range |       | Capacity (Mast vertical to ground) |      |       |                                   |      |       |
|--------------------------------|-------|----------------|------------------------|----------------|------------------|---------------------|------------------|---------------|-------|------------------------------------|------|-------|-----------------------------------|------|-------|
|                                |       |                |                        | With backrest  | Without backrest | With backrest       | Without backrest | FWD           | BWD   | Load center@500mm Single Tire      |      |       | Load center@500mm Front Dual Tire |      |       |
|                                |       | mm             | mm                     | mm             | mm               | mm                  | mm               | ( ° )         | ( ° ) | 1.0t                               | 1.5t | 1.75t | 1.0t                              | 1.5t | 1.75t |
| Duplex wide view mast          | M250  | 2500           | 1726                   | 3455           | 3064             | 145                 | 145              | 5             | 6     | 1000                               | 1500 | 1750  | 1000                              | 1500 | 1750  |
|                                | M270  | 2700           | 1826                   | 3655           | 3264             | 145                 | 145              | 5             | 6     | 1000                               | 1500 | 1750  | 1000                              | 1500 | 1750  |
|                                | M300  | 3000           | 1976                   | 3955           | 3564             | 145                 | 145              | 5             | 10    | 1000                               | 1500 | 1750  | 1000                              | 1500 | 1750  |
|                                | M330  | 3300           | 2126                   | 4255           | 3864             | 145                 | 145              | 5             | 10    | 1000                               | 1500 | 1750  | 1000                              | 1500 | 1750  |
|                                | M350  | 3500           | 2226                   | 4455           | 4064             | 145                 | 145              | 5             | 10    | 1000                               | 1500 | 1750  | 1000                              | 1500 | 1750  |
|                                | M360  | 3600           | 2326                   | 4555           | 4164             | 145                 | 145              | 5             | 10    | 960                                | 1450 | 1750  | 960                               | 1450 | 1750  |
|                                | M400  | 4000           | 2576                   | 4955           | 4564             | 145                 | 145              | 5             | 10    | 930                                | 1400 | 1700  | 930                               | 1400 | 1700  |
|                                | M430  | 4300           | 2726                   | 5255           | 4864             | 145                 | 145              | 5             | 6     | 850                                | 1300 | 1550  | 910                               | 1350 | 1650  |
| Duplex full-free lifting mast  | M450  | 4500           | 2826                   | 5455           | 5064             | 145                 | 145              | 5             | 6     | 800                                | 1200 | 1450  | 900                               | 1300 | 1600  |
|                                | U250  | 2500           | 1726                   | 3455           | 3095             | 781                 | 1141             | 5             | 6     | 1000                               | 1500 | 1750  | 1000                              | 1500 | 1750  |
|                                | U270  | 2700           | 1826                   | 3655           | 3295             | 881                 | 1241             | 5             | 6     | 1000                               | 1500 | 1750  | 1000                              | 1500 | 1750  |
|                                | U300  | 3000           | 1976                   | 3955           | 3595             | 1031                | 1391             | 5             | 10    | 1000                               | 1500 | 1750  | 1000                              | 1500 | 1750  |
|                                | U330  | 3300           | 2126                   | 4255           | 3895             | 1181                | 1541             | 5             | 10    | 1000                               | 1500 | 1750  | 1000                              | 1500 | 1750  |
|                                | U360  | 3600           | 2276                   | 4555           | 4195             | 1331                | 1691             | 5             | 10    | 900                                | 1350 | 1750  | 930                               | 1450 | 1750  |
| Triplex full-free lifting mast | U400  | 4000           | 2526                   | 4955           | 4595             | 1581                | 1941             | 5             | 10    | 850                                | 1300 | 1650  | 900                               | 1350 | 1600  |
|                                | N400  | 4000           | 1976                   | 4955           | 4736             | 1031                | 1250             | 5             | 6     | 900                                | 1350 | 1600  | 930                               | 1400 | 1700  |
|                                | N430  | 4300           | 2076                   | 5255           | 5036             | 1131                | 1350             | 5             | 6     | 850                                | 1300 | 1550  | 850                               | 1350 | 1600  |
|                                | N450  | 4500           | 2086                   | 5465           | 5105             | 1141                | 1501             | 5             | 6     | 800                                | 1200 | 1450  | 800                               | 1250 | 1500  |
|                                | N480  | 4800           | 2201                   | 5755           | 5411             | 1256                | 1600             | 5             | 6     | 650                                | 1100 | 1300  | 700                               | 1200 | 1350  |
|                                | N500  | 5000           | 2251                   | 5955           | 5595             | 1306                | 1666             | 5             | 6     | 600                                | 1000 | 1200  | 650                               | 1050 | 1250  |
|                                | N550  | 5500           | 2426                   | 6455           | 6095             | 1481                | 1841             | 3             | 6     | 500                                | 700  | 800   | 550                               | 750  | 900   |
|                                | N600  | 6000           | 2651                   | 6955           | 6661             | 1706                | 2000             | 3             | 6     | 300                                | 450  | 600   | 350                               | 500  | 650   |
|                                | N650  | 6500           | 2816                   | 7455           | 7126             | 1871                | 2200             | 3             | 6     | 200                                | 250  | 350   | 300                               | 400  | 500   |



2.0~2.5t A Series Mast Specification

| Type                           | Model | Lifting height | Lowered overall height | Overall height |                  | Free lifting height |                  | Tilting range |          | Capacity (Mast vertical to ground) |      |                                    |      |                               |      |                                   |      |
|--------------------------------|-------|----------------|------------------------|----------------|------------------|---------------------|------------------|---------------|----------|------------------------------------|------|------------------------------------|------|-------------------------------|------|-----------------------------------|------|
|                                |       |                |                        | With backrest  | Without backrest | With backrest       | Without backrest | Forward       | Backward | Load center@ 500mm Single Tire     |      | Load center@ 500mm Front Dual Tire |      | Load center@ 24in Single Tire |      | Load center@ 24in Front Dual Tire |      |
|                                |       | mm             | mm                     | mm             | mm               | mm                  | mm               | ( ° )         | ( ° )    | 2.0t                               | 2.5t | 2.0t                               | 2.5t | 4000                          | 5000 | 4000                              | 5000 |
| Duplex wide view mast          | M250  | 2500           | 1756                   | 3556           | 3151             | 145                 | 145              | 5             | 6        | 2000                               | 2500 | 2000                               | 2500 | 4000                          | 5000 | 4000                              | 5000 |
|                                | M270  | 2700           | 1856                   | 3756           | 3351             | 145                 | 145              | 5             | 6        | 2000                               | 2500 | 2000                               | 2500 | 4000                          | 5000 | 4000                              | 5000 |
|                                | M300  | 3000           | 2006                   | 4056           | 3651             | 145                 | 145              | 5             | 10       | 2000                               | 2500 | 2000                               | 2500 | 4000                          | 5000 | 4000                              | 5000 |
|                                | M330  | 3300           | 2171                   | 4386           | 3981             | 145                 | 145              | 5             | 10       | 2000                               | 2500 | 2000                               | 2500 | 4000                          | 5000 | 4000                              | 5000 |
|                                | M350  | 3500           | 2256                   | 4556           | 4151             | 145                 | 145              | 5             | 10       | 2000                               | 2500 | 2000                               | 2500 | 4000                          | 5000 | 4000                              | 5000 |
|                                | M360  | 3600           | 2306                   | 4656           | 4251             | 145                 | 145              | 5             | 10       | 2000                               | 2500 | 2000                               | 2500 | 4000                          | 5000 | 4000                              | 5000 |
|                                | M400  | 4000           | 2556                   | 5056           | 4651             | 145                 | 145              | 5             | 10       | 1900                               | 2300 | 1950                               | 2400 | 3800                          | 4600 | 3900                              | 4800 |
|                                | M430  | 4300           | 2731                   | 5376           | 4971             | 145                 | 145              | 5             | 6        | 1800                               | 2100 | 1900                               | 2300 | 3600                          | 4200 | 3800                              | 4600 |
| Duplex full-free lifting mast  | M450  | 4500           | 2831                   | 5556           | 5151             | 145                 | 145              | 5             | 6        | 1700                               | 2000 | 1800                               | 2200 | 3400                          | 4000 | 3600                              | 4400 |
|                                | U250  | 2500           | 1781                   | 3546           | 3132             | 735                 | 1149             | 5             | 6        | 2000                               | 2500 | 2000                               | 2500 | 4000                          | 5000 | 4000                              | 5000 |
|                                | U270  | 2700           | 1881                   | 3746           | 3332             | 835                 | 1249             | 5             | 6        | 2000                               | 2500 | 2000                               | 2500 | 4000                          | 5000 | 4000                              | 5000 |
|                                | U300  | 3000           | 1981                   | 4046           | 3632             | 935                 | 1349             | 5             | 10       | 2000                               | 2500 | 2000                               | 2500 | 4000                          | 5000 | 4000                              | 5000 |
|                                | U330  | 3300           | 2131                   | 4346           | 3932             | 1085                | 1499             | 5             | 10       | 2000                               | 2500 | 2000                               | 2500 | 4000                          | 5000 | 4000                              | 5000 |
|                                | U360  | 3600           | 2281                   | 4646           | 4232             | 1235                | 1649             | 5             | 10       | 2000                               | 2500 | 2000                               | 2500 | 4000                          | 5000 | 4000                              | 5000 |
| Triplex full-free lifting mast | U400  | 4000           | 2531                   | 5046           | 4632             | 1485                | 1899             | 5             | 10       | 1900                               | 2300 | 1950                               | 2350 | 3800                          | 4600 | 3900                              | 4700 |
|                                | N430  | 4300           | 2026                   | 5356           | 4980             | 980                 | 1356             | 5             | 6        | 1700                               | 2000 | 1800                               | 2250 | 3400                          | 4000 | 3600                              | 4500 |
|                                | N450  | 4500           | 2096                   | 5606           | 5230             | 1050                | 1426             | 5             | 6        | 1600                               | 1900 | 1700                               | 2150 | 3200                          | 3800 | 3400                              | 4300 |
|                                | N480  | 4800           | 2196                   | 5856           | 5480             | 1150                | 1526             | 5             | 6        | 1500                               | 1700 | 1600                               | 2100 | 3000                          | 3400 | 3200                              | 4200 |
|                                | N500  | 5000           | 2261                   | 6056           | 5680             | 1215                | 1591             | 5             | 6        | 1400                               | 1600 | 1500                               | 2000 | 2800                          | 3200 | 3000                              | 4000 |
|                                | N550  | 5500           | 2426                   | 6556           | 6180             | 1380                | 1756             | 3             | 6        | 1050                               | 1200 | 1450                               | 1900 | 2100                          | 2400 | 2900                              | 3800 |
|                                | N600  | 6000           | 2646                   | 7066           | 6690             | 1600                | 1976             | 3             | 6        | 700                                | 800  | 1400                               | 1600 | 1400                          | 1600 | 2800                              | 3200 |
|                                | N650  | 6500           | 2820                   | 7556           | 7180             | 1775                | 2151             | 3             | 6        | 500                                | 650  | 1200                               | 1300 | 1000                          | 1300 | 2400                              | 2600 |



3.0~3.5t A Series Mast Specification

| Type                           | Model | Lifting height | Lowered overall height |         | Overall height |               |                  |                  | Free lifting height |               |                  |                  | Tilting range |         | Capacity (Mast vertical to ground) |                                   |                              |                                  |                               |                                   |                              |                                  | Capacity (Mast most forward@max height) |         |          |          | Capacity (Mast most forward@max height) |          |      |      |
|--------------------------------|-------|----------------|------------------------|---------|----------------|---------------|------------------|------------------|---------------------|---------------|------------------|------------------|---------------|---------|------------------------------------|-----------------------------------|------------------------------|----------------------------------|-------------------------------|-----------------------------------|------------------------------|----------------------------------|-----------------------------------------|---------|----------|----------|-----------------------------------------|----------|------|------|
|                                |       |                |                        |         | With backrest  | With backrest | Without backrest | Without backrest | With backrest       | With backrest | Without backrest | Without backrest |               |         | Load center@500mm Single Tire      | Load center@500mm Front Dual Tire | Load center@24in Single Tire | Load center@24in Front Dual Tire | Load center@500mm Single Tire | Load center@500mm Front Dual Tire | Load center@24in Single Tire | Load center@24in Front Dual Tire |                                         |         |          |          |                                         |          |      |      |
|                                |       |                | 3.0t mm                | 3.5t mm | 3.0t mm        | 3.5t mm       | 3.0t mm          | 3.5t mm          | 3.0t mm             | 3.5t mm       | 3.0t mm          | 3.5t mm          | 3.0t mm       | 3.5t mm | 3.0t mm                            | 3.5t mm                           | 6000 lbs                     | 7000 lbs                         | 6000 lbs                      | 7000 lbs                          | 3.0t kg                      | 3.5t kg                          | 3.0t kg                                 | 3.5t kg | 6000 lbs | 7000 lbs | 6000 lbs                                | 7000 lbs |      |      |
| Duplex wide view mast          | M250  | 2500           | 1786                   | 1936    | 3652           | 3652          | 3213             | 3288             | 145                 | 150           | 145              | 150              | 5             | 6       | 3000                               | 3500                              | 3000                         | 3500                             | 6000                          | 7000                              | 6000                         | 7000                             | 2490                                    | 2905    | 2490     | 2905     | 4980                                    | 5810     | 4980 | 5810 |
|                                | M270  | 2700           | 1886                   | 2036    | 3852           | 3852          | 3413             | 3488             | 145                 | 150           | 145              | 150              | 5             | 6       | 3000                               | 3500                              | 3000                         | 3500                             | 6000                          | 7000                              | 6000                         | 7000                             | 2460                                    | 2870    | 2460     | 2870     | 4920                                    | 5740     | 4920 | 5740 |
|                                | M300  | 3000           | 2036                   | 2186    | 4152           | 4152          | 3713             | 3788             | 145                 | 150           | 145              | 150              | 5             | 10      | 3000                               | 3500                              | 3000                         | 3500                             | 6000                          | 7000                              | 6000                         | 7000                             | 2400                                    | 2800    | 2400     | 2800     | 4800                                    | 5600     | 4800 | 5600 |
|                                | M330  | 3300           | 2186                   | 2336    | 4452           | 4452          | 4013             | 4088             | 145                 | 150           | 145              | 150              | 5             | 10      | 3000                               | 3500                              | 3000                         | 3500                             | 6000                          | 7000                              | 6000                         | 7000                             | 2340                                    | 2730    | 2340     | 2730     | 4680                                    | 5460     | 4680 | 5460 |
|                                | M350  | 3500           | 2286                   | 2436    | 4652           | 4652          | 4213             | 4288             | 145                 | 150           | 145              | 150              | 5             | 10      | 3000                               | 3500                              | 3000                         | 3500                             | 6000                          | 7000                              | 6000                         | 7000                             | 2310                                    | 2695    | 2310     | 2695     | 4620                                    | 5390     | 4620 | 5390 |
|                                | M360  | 3600           | 2336                   | 2486    | 4752           | 4752          | 4313             | 4388             | 145                 | 150           | 145              | 150              | 5             | 10      | 3000                               | 3500                              | 3000                         | 3500                             | 6000                          | 7000                              | 6000                         | 7000                             | 2310                                    | 2695    | 2310     | 2695     | 4620                                    | 5390     | 4620 | 5390 |
|                                | M400  | 4000           | 2586                   | 2686    | 5152           | 5152          | 4713             | 4788             | 145                 | 150           | 145              | 150              | 5             | 10      | 2850                               | 3250                              | 2900                         | 3500                             | 5700                          | 6500                              | 5800                         | 7000                             | 2138                                    | 2438    | 2175     | 2625     | 4276                                    | 4876     | 4350 | 5250 |
|                                | M430  | 4300           | 2761                   | 2836    | 5472           | 5452          | 5033             | 5088             | 145                 | 150           | 145              | 150              | 5             | 6       | 2700                               | 3000                              | 2750                         | 3400                             | 5400                          | 6000                              | 5500                         | 6800                             | 1970                                    | 2190    | 2008     | 2482     | 3940                                    | 4380     | 4016 | 4964 |
|                                | M450  | 4500           | 2861                   | 2936    | 5652           | 5652          | 5213             | 5288             | 145                 | 150           | 145              | 150              | 5             | 6       | 2550                               | 2850                              | 2600                         | 3350                             | 5100                          | 5700                              | 5200                         | 6700                             | 1800                                    | 2052    | 1872     | 2412     | 3600                                    | 4104     | 3744 | 4824 |
|                                | M480  | 4800           | 3026                   | 3086    | 5952           | 5952          | 5513             | 5588             | 145                 | 150           | 145              | 150              | 5             | 6       | 2250                               | 2450                              | 2500                         | 2950                             | 4500                          | 4900                              | 5000                         | 5900                             | 1598                                    | 1740    | 1775     | 2095     | 3196                                    | 3480     | 3550 | 4190 |
| Duplex full-free lifting mast  | M500  | 5000           | 3136                   | 3186    | 6152           | 6152          | 5713             | 5788             | 145                 | 150           | 145              | 150              | 5             | 6       | 2100                               | 2300                              | 2300                         | 2800                             | 4200                          | 4600                              | 4600                         | 5600                             | 1470                                    | 1610    | 1610     | 1960     | 2940                                    | 3220     | 3220 | 3920 |
|                                | U250  | 2500           | 1826                   | 1936    | 3652           | 3652          | 3247             | 3292             | 684                 | 794           | 1089             | 1154             | 5             | 6       | 3000                               | 3500                              | 3000                         | 3500                             | 6000                          | 7000                              | 6000                         | 7000                             | 2490                                    | 2905    | 2490     | 2905     | 4980                                    | 5810     | 4980 | 5810 |
|                                | U270  | 2700           | 1926                   | 2036    | 3852           | 3852          | 3447             | 3492             | 784                 | 894           | 1189             | 1254             | 5             | 6       | 3000                               | 3500                              | 3000                         | 3500                             | 6000                          | 7000                              | 6000                         | 7000                             | 2460                                    | 2870    | 2460     | 2870     | 4920                                    | 5740     | 4920 | 5740 |
|                                | U300  | 3000           | 2036                   | 2136    | 4152           | 4142          | 3721             | 3786             | 894                 | 994           | 1325             | 1350             | 5             | 10      | 3000                               | 3500                              | 3000                         | 3500                             | 6000                          | 7000                              | 6000                         | 7000                             | 2400                                    | 2800    | 2400     | 2800     | 4800                                    | 5600     | 4800 | 5600 |
|                                | U330  | 3300           | 2186                   | 2336    | 4452           | 4452          | 4021             | 4096             | 1044                | 1194          | 1475             | 1550             | 5             | 10      | 3000                               | 3500                              | 3000                         | 3500                             | 6000                          | 7000                              | 6000                         | 7000                             | 2340                                    | 2730    | 2340     | 2730     | 4680                                    | 5460     | 4680 | 5460 |
|                                | U360  | 3600           | 2336                   | 2495    | 4752           | 4752          | 4321             | 4396             | 1194                | 1353          | 1625             | 1709             | 5             | 10      | 3000                               | 3500                              | 3000                         | 3500                             | 6000                          | 7000                              | 6000                         | 7000                             | 2310                                    | 2695    | 2310     | 2695     | 4620                                    | 5390     | 4620 | 5390 |
| Triplex full-free lifting mast | U400  | 4000           | 2536                   | 2695    | 5152           | 5152          | 4721             | 4796             | 1394                | 1553          | 1825             | 1909             | 5             | 10      | 2850                               | 3250                              | 2900                         | 3500                             | 5700                          | 6500                              | 5800                         | 7000                             | 2138                                    | 2438    | 2175     | 2625     | 4276                                    | 4876     | 4350 | 5250 |
|                                | N430  | 4300           | 2041                   | 2151    | 5452           | 5452          | 5081             | 5156             | 909                 | 1009          | 1280             | 1305             | 5             | 6       | 2550                               | 2850                              | 2750                         | 3350                             | 5100                          | 5700                              | 5500                         | 6700                             | 1862                                    | 2080    | 2062     | 2445     | 3724                                    | 4160     | 4124 | 4890 |
|                                | N450  | 4500           | 2121                   | 2221    | 5706           | 5652          | 5335             | 5356             | 979                 | 1079          | 1350             | 1375             | 5             | 6       | 2400                               | 2700                              | 2700                         | 3200                             | 4800                          | 5400                              | 5400                         | 6400                             | 1728                                    | 1944    | 1944     | 2304     | 3456                                    | 3888     | 3888 | 4608 |
|                                | N480  | 4800           | 2221                   | 2321    | 5952           | 5952          | 5581             | 5656             | 1079                | 1179          | 1450             | 1475             | 5             | 6       | 2250                               | 2450                              | 2600                         | 2950                             | 4500                          | 4900                              | 5200                         | 5900                             | 1598                                    | 1740    | 1846     | 2095     | 3196                                    | 3480     | 3692 | 4190 |
|                                | N500  | 5000           | 2287                   | 2387    | 6152           | 6152          | 5781             | 5856             | 1145                | 1245          | 1516             | 1541             | 5             | 6       | 2100                               | 2300                              | 2500                         | 2850                             | 4200                          | 4600                              | 5000                         | 5700                             | 1470                                    | 1610    | 1750     | 1995     | 2940                                    | 3220     | 3500 | 3990 |
|                                | N550  | 5500           | 2451                   | 2551    | 6652           | 6652          | 6281             | 6356             | 1309                | 1409          | 1680             | 1705             | 3             | 6       | 1650                               | 1800                              | 2350                         | 2700                             | 3300                          | 3600                              | 4700                         | 5400                             | 1254                                    | 1404    | 1833     | 2106     | 2508                                    | 2808     | 3666 | 4212 |
|                                | N600  | 6000           | 2671                   | 2717    | 7160           | 7152          | 6789             | 6856             | 1529                | 1575          | 1900             | 1871             | 3             | 6       | 1200                               | 1300                              | 2050                         | 2300                             | 2400                          | 2600                              | 4100                         | 4600                             | 912                                     | 988     | 1600     | 1794     | 1824                                    | 1976     | 3200 | 3588 |
|                                | N650  | 6500           | 2846                   | 2946    | 7652           | 7652          | 7281             | 7356             | 1704                | 1804          | 2075             | 2100             | 3             | 6       | 900                                | 1000                              | 1850                         | 1900                             | 1800                          | 2000                              | 3700                         | 3800                             | 670                                     | 745     | 1378     | 1415     | 1340                                    | 1490     | 2756 | 2830 |