

**2.5t A series long wheelbase mast specification:**

| Type                           | Model                          | lifting height | Lowered | 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 | Load center@24in Single Tire | Load center@24in Front Dual Tire |
|                                |                                |                |         | mm             | mm               | mm                  | mm               | Deg           | Deg | kg                                 | kg                                | lbs                          | lbs                              |
| 2-stage wide mast              | M250                           | 2500           | 1786    | 3556           | 3234             | 140                 | 140              | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | M270                           | 2700           | 1886    | 3756           | 3434             | 140                 | 140              | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | M300                           | 3000           | 2006    | 4056           | 3734             | 140                 | 140              | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | M330                           | 3300           | 2186    | 4356           | 4034             | 140                 | 140              | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | M350                           | 3500           | 2286    | 4556           | 4234             | 140                 | 140              | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | M360                           | 3600           | 2336    | 4656           | 4334             | 140                 | 140              | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | M400                           | 4000           | 2586    | 5056           | 4734             | 140                 | 140              | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | M430                           | 4300           | 2751    | 5356           | 5034             | 140                 | 140              | 5             | 6   | 2500                               | 2500                              | 5000                         | 5000                             |
| 2-stage full-free lifting mast | M450                           | 4500           | 2881    | 5556           | 5234             | 140                 | 140              | 5             | 6   | 2300                               | 2500                              | 4600                         | 5000                             |
|                                | U250                           | 2500           | 1766    | 3556           | 3185             | 720                 | 1091             | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | U270                           | 2700           | 1866    | 3756           | 3385             | 820                 | 1191             | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | U300                           | 3000           | 1966    | 4056           | 3685             | 920                 | 1291             | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | U330                           | 3300           | 2116    | 4356           | 3985             | 1070                | 1441             | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | U360                           | 3600           | 2266    | 4656           | 4285             | 1220                | 1591             | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | U400                           | 4000           | 2516    | 5056           | 4685             | 1470                | 1841             | 5             | 10  | 2500                               | 2500                              | 5000                         | 5000                             |
|                                | 3-stage full-free lifting mast | N430           | 4300    | 1976           | 5356             | 5019                | 930              | 1267          | 5   | 6                                  | 2300                              | 2500                         | 4600                             |
| N450                           |                                | 4500           | 2096    | 5556           | 5219             | 1050                | 1387             | 5             | 6   | 2200                               | 2350                              | 4400                         | 4700                             |
| N480                           |                                | 4800           | 2196    | 5856           | 5519             | 1150                | 1487             | 5             | 6   | 2100                               | 2200                              | 4200                         | 4400                             |
| N500                           |                                | 5000           | 2261    | 6056           | 5719             | 1215                | 1552             | 5             | 6   | 1900                               | 2100                              | 3800                         | 4200                             |
| N550                           |                                | 5500           | 2426    | 6556           | 6219             | 1380                | 1717             | 3             | 6   | 1400                               | 1900                              | 2800                         | 3800                             |
| N600                           |                                | 6000           | 2641    | 7056           | 6719             | 1595                | 1932             | 3             | 6   | 1000                               | 1700                              | 2000                         | 3400                             |
| N650                           |                                | 6500           | 2820    | 7556           | 7219             | 1774                | 2111             | 3             | 6   | 850                                | 1500                              | 1700                         | 3000                             |

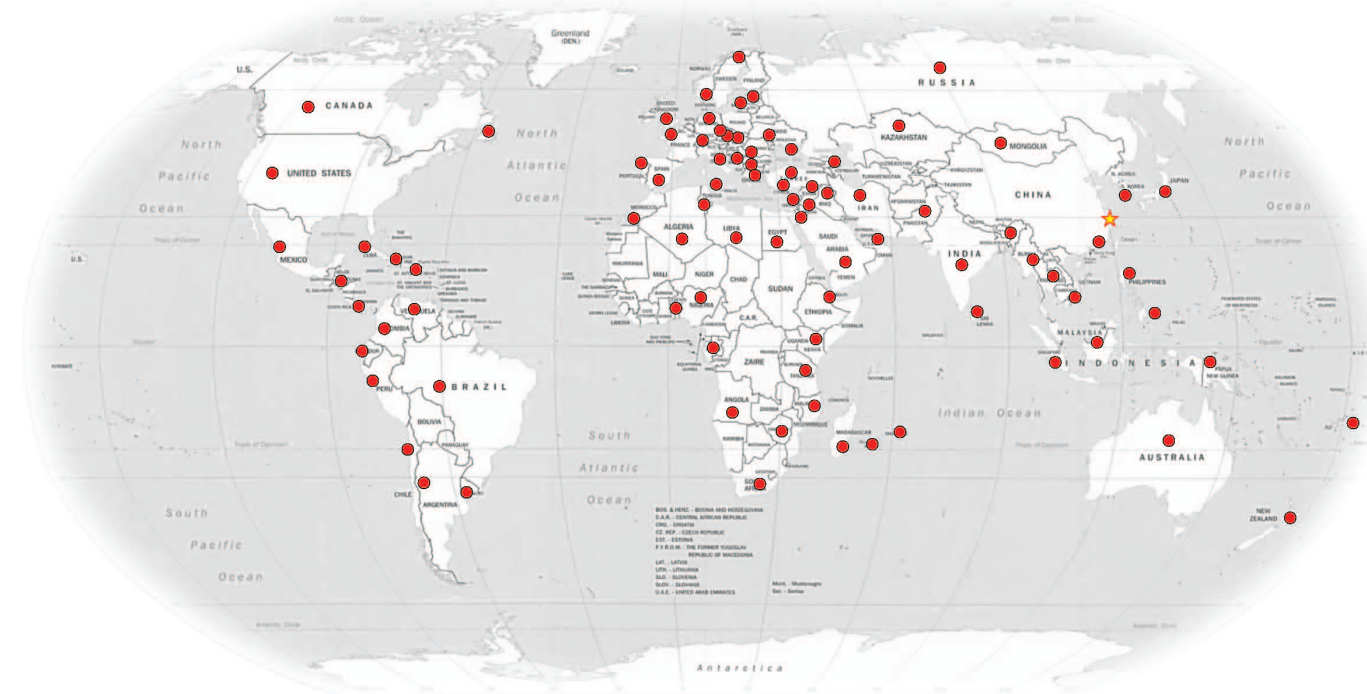
• With sideshift minus 150kg, with integrated sideshift minus 100kg. • With solid tyre, load capacity increase 80kg.

**3.0-3.5t A series mast: ( 3.0t with pneumatic, 3.5t with solid tyre)**

| 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 @500 mm                |                 |             |                 | Load center @24 in |                 |      |      |      |
|                                |       |                |                        | 3t             | 3.5t | 3t               | 3.5t | 3t                  | 3.5t | 3t               | 3.5t | °             | °   | Single Tire                        | Front Dual Tire | Single Tire | Front Dual Tire | Single Tire        | Front Dual Tire |      |      |      |
|                                |       |                |                        | mm             | mm   | mm               | mm   | mm                  | mm   | mm               | mm   | mm            | mm  | Deg                                | Deg             | kg          | kg              | kg                 | kg              | lbs  | lbs  | lbs  |
| 2-stage wide view mast         | M250  | 2500           | 1786                   | 1936           | 3652 | 3652             | 3297 | 3364                | 145  | 145              | 145  | 145           | 5   | 10                                 | 3000            | 3500        | 3000            | 3500               | 6000            | 7000 | 6000 | 7000 |
|                                | M270  | 2700           | 1886                   | 2036           | 3852 | 3852             | 3497 | 3564                | 145  | 145              | 145  | 145           | 5   | 10                                 | 3000            | 3500        | 3000            | 3500               | 6000            | 7000 | 6000 | 7000 |
|                                | M300  | 3000           | 2036                   | 2186           | 4152 | 4152             | 3797 | 3864                | 145  | 145              | 145  | 145           | 5   | 10                                 | 3000            | 3500        | 3000            | 3500               | 6000            | 7000 | 6000 | 7000 |
|                                | M330  | 3300           | 2186                   | 2336           | 4452 | 4452             | 4097 | 4164                | 145  | 145              | 145  | 145           | 5   | 10                                 | 3000            | 3500        | 3000            | 3500               | 6000            | 7000 | 6000 | 7000 |
|                                | M350  | 3500           | 2286                   | 2436           | 4652 | 4652             | 4297 | 4364                | 145  | 145              | 145  | 145           | 5   | 10                                 | 3000            | 3500        | 3000            | 3500               | 6000            | 7000 | 6000 | 7000 |
|                                | M360  | 3600           | 2336                   | 2486           | 4752 | 4752             | 4397 | 4464                | 145  | 145              | 145  | 145           | 5   | 10                                 | 3000            | 3500        | 3000            | 3500               | 6000            | 7000 | 6000 | 7000 |
|                                | M400  | 4000           | 2586                   | 2686           | 5152 | 5152             | 4797 | 4864                | 145  | 145              | 145  | 145           | 5   | 10                                 | 2850            | 3250        | 2900            | 3500               | 5700            | 6500 | 5800 | 7000 |
|                                | M430  | 4300           | 2751                   | 2836           | 5452 | 5452             | 5097 | 5164                | 145  | 145              | 145  | 145           | 5   | 6                                  | 2700            | 3000        | 2750            | 3400               | 5400            | 6000 | 5500 | 6800 |
| 2-stage full-free lifting mast | M450  | 4500           | 2861                   | 2936           | 5652 | 5652             | 5297 | 5364                | 145  | 145              | 145  | 145           | 5   | 6                                  | 2550            | 2850        | 2600            | 3350               | 5100            | 5700 | 5100 | 6700 |
|                                | M480  | 4800           | 3026                   | 3086           | 5952 | 5952             | 5597 | 5664                | 145  | 145              | 145  | 145           | 5   | 6                                  | 2250            | 2450        | 2500            | 2950               | 4500            | 4900 | 5000 | 5900 |
|                                | M500  | 5000           | 3136                   | 3186           | 6152 | 6152             | 5797 | 5864                | 145  | 145              | 145  | 145           | 5   | 6                                  | 2100            | 2300        | 2300            | 2800               | 4200            | 4600 | 4600 | 5600 |
|                                | U250  | 2500           | 1826                   | 1936           | 3652 | 3652             | 3247 | 3292                | 684  | 794              | 1089 | 1154          | 5   | 10                                 | 3000            | 3500        | 3000            | 3500               | 6000            | 7000 | 6000 | 7000 |
|                                | U270  | 2700           | 1926                   | 2036           | 3852 | 3852             | 3447 | 3492                | 784  | 894              | 1189 | 1254          | 5   | 10                                 | 3000            | 3500        | 3000            | 3500               | 6000            | 7000 | 6000 | 7000 |
|                                | U300  | 3000           | 2036                   | 2195           | 4152 | 4152             | 3747 | 3792                | 894  | 1053             | 1299 | 1413          | 5   | 10                                 | 3000            | 3500        | 3000            | 3500               | 6000            | 7000 | 6000 | 7000 |
|                                | U330  | 3300           | 2186                   | 2336           | 4452 | 4452             | 4047 | 4092                | 1044 | 1194             | 1449 | 1554          | 5   | 10                                 | 3000            | 3500        | 3000            | 3500               | 6000            | 7000 | 6000 | 7000 |
|                                | U360  | 3600           | 2345                   | 2495           | 4752 | 4752             | 4347 | 4392                | 1203 | 1353             | 1608 | 1713          | 5   | 10                                 | 3000            | 3500        | 3000            | 3500               | 6000            | 7000 | 6000 | 7000 |
| 3-stage full-free lifting mast | U400  | 4000           | 2555                   | 2705           | 5152 | 5152             | 4747 | 4792                | 1413 | 1563             | 1818 | 1923          | 5   | 10                                 | 2850            | 3250        | 2900            | 3500               | 5700            | 6500 | 5800 | 7000 |
|                                | N430  | 4300           | 2041                   | 2141           | 5452 | 5452             | 5083 | 5092                | 899  | 999              | 1268 | 1359          | 5   | 6                                  | 2550            | 2850        | 2750            | 3350               | 5100            | 5700 | 5500 | 6700 |
|                                | N450  | 4500           | 2121                   | 2221           | 5652 | 5652             | 5283 | 5292                | 979  | 1079             | 1348 | 1439          | 5   | 6                                  | 2400            | 2700        | 2700            | 3200               | 4800            | 5400 | 5400 | 6400 |
|                                | N480  | 4800           | 2221                   | 2321           | 5952 | 5952             | 5583 | 5592                | 1079 | 1179             | 1448 | 1539          | 5   | 6                                  | 2250            | 2450        | 2600            | 2950               | 4500            | 4900 | 5200 | 5900 |
|                                | N500  | 5000           | 2287                   | 2387           | 6152 | 6152             | 5783 | 5792                | 1145 | 1245             | 1514 | 1605          | 5   | 6                                  | 2100            | 2300        | 2500            | 2850               | 4200            | 4600 | 5000 | 5700 |
|                                | N550  | 5500           | 2451                   | 2551           | 6652 | 6652             | 6283 | 6292                | 1309 | 1409             | 1678 | 1769          | 3   | 6                                  | 1650            | 1800        | 2350            | 2700               | 3300            | 3600 | 4700 | 5400 |
|                                | N600  | 6000           | 2617                   | 2717           | 7152 | 7152             | 6783 | 6792                | 1475 | 1575             | 1844 | 1935          | 3   | 6                                  | 1200            | 1300        | 2050            | 2300               | 2400            | 2600 | 4100 | 4600 |
|                                | N650  | 6500           | 2845                   | 2946           | 7652 | 7652             | 7283 | 7292                | 1703 | 1804             | 2072 | 2164          | 3   | 6                                  | 900             | 1000        | 1850            | 1900               | 1800            | 2000 | 3700 | 3800 |

• With sideshift minus 200kg, with integrated sideshift minus 100kg. • For 3t truck, with solid tyre, load capacity increase 100kg.

CHANGLIN CONSTRUCTION MACHINERY  
常林工程机械 · 2014 ·



CE CERTIFICATE



ISO14001



ISO9001

ISO9001: 2008

**CHANGLIN COMPANY LIMITED**

Add: No.898 West Huanghe Road, Changzhou, Jiangsu, P.R. of China

P.C.: 213136

Tel: 86-519-86781288 86752400

Fax: 86-519-86781387

Http://www.changlin.com.cn

E-mail: sales@changlin.com.cn

DEALER:

CHANGLIN

CHANGLIN

CHANGLIN COMPANY LIMITED

**Electric Forklift Truck**

**A Series: 1.0/1.5/1.8/2.0/2.5/3.0/3.5t**



常林股份有限公司

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

## OUTLINE

Eyeball attractive designed streamlined outline, small dimension, and metal material applied for exposed parts, all provide robust construction of A series.

## COMFORTABLE

Thanks to the new designed ergonomically operator's cab, the operator can work in relax, low fatigue, and even during long shift.

Sinking type designed battery layout provides battery stability especially during turning.

Ergonomically designed small radius turning wheel, and 150mm adjustable distance of seat, both provide better operator's comfort of different operators.

Soft landing system is applied for A series. When the forks lows 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 view ability.

Big LED dashboard is easy to see and provides friendly human-computer interaction and with running hours, self diagnosis function and the battery power shown.

Low noise, energy saving and no exhaust emission, all meet environment friendly requirement.



## STANDARD SPECIFICATIONS

- High efficiency AC driving motor
- Special for truck's lifting motor
- Multi-functions dashboard
- Full electronic controlled travelling, lifting and steering
- Front lighting system, turning indicator, LED combined three colors' rear lights
- Big dimension rubber pad
- Sheet metal stamping made front and rear bottom plate

- Sheet metal stamping made left and right cover and battery cover
- Standard battery
- Reversing beeper
- Full hydraulic steering
- Storage box
- Soft landing system
- Standard forks in red
- 3m duplex mast
- Tow coupling
- Center located rear view mirror

## OPTIONS

- Side way battery change
- Big capacity Chinese made battery
- Cold store application
- High performance import battery
- Battery charger
- Rear lighting system
- Front dual tyre
- SE tyre
- Non-marking tyre
- Suspension seat with higher OHG

## AC TECHNOLOGY

The AC technology offers numerous advantages to HANGCHAA series trucks.

Maintenance free driving motor is no need to replace the carbon brush, low service cost.

High efficiency AC system is not only with full protection functions but also with the self equipped temperature sensor, speed sensor, which provides better reliability and long working life time.

## SAFETY SYSTEM

High frequency MOSFET controller provides accurate control of travelling, lifting, and better adjustable performance and better match with the motor.

Secure stopping on ramp function is also provided thanks to MOSFET controller.

Motor brake is for regenerative braking during deceleration, direction changing, and downward slope. The regenerative braking is more energy saving and effectively.

## EASY MAINTENANCE

Full opened battery cover is easy for battery service.

The controller is enclosed to avoid dust and water, and the cover is easy opened.

The applied world famous controllers, connectors, battery plug, emergency switch, and dashboard are to ensure the reliability of the performance and provide easy service.

Emergency switch is standard specification which meets the Euro safety regulation.

There's overloading protection for electronics and hydraulic system.

The whole truck meets CE certificate.

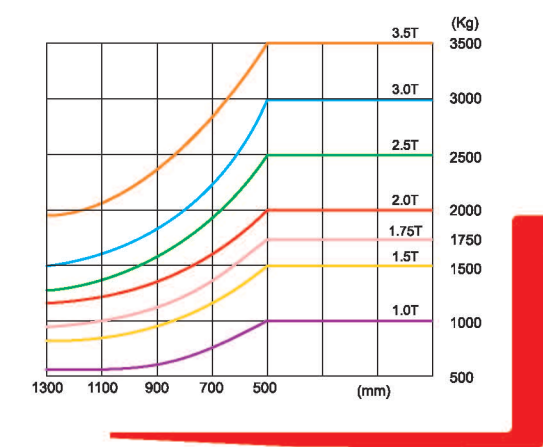
- Left and right rear view mirror
- Reversing hand grip with horn button
- Wider fork carriage
- Wide or higher load backrest
- Other dimension forks
- Duplex mast with full free lift
- Triplex mast
- Integrated side shift
- Other attachments



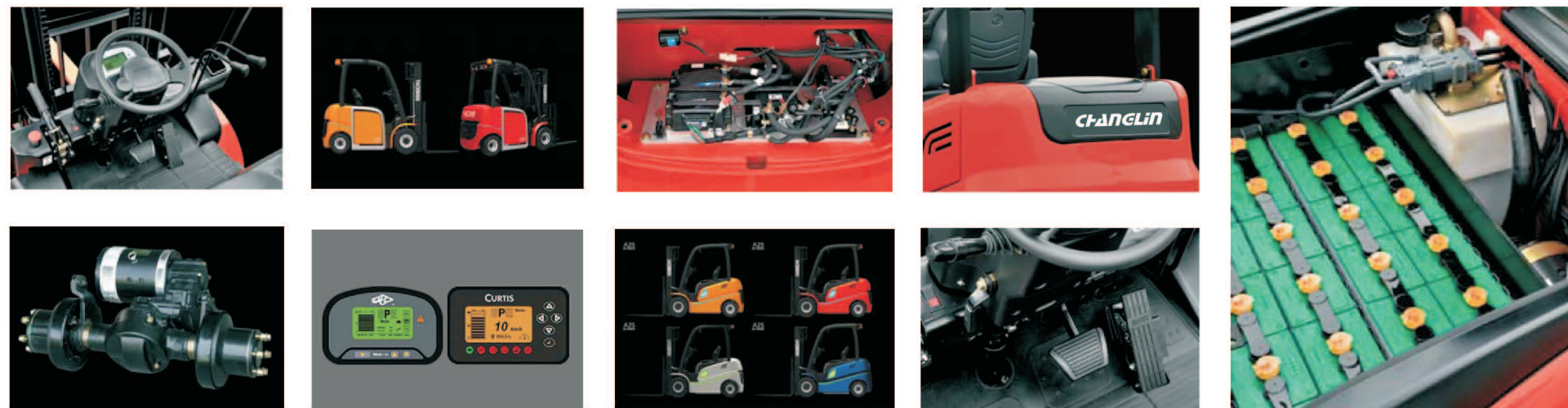
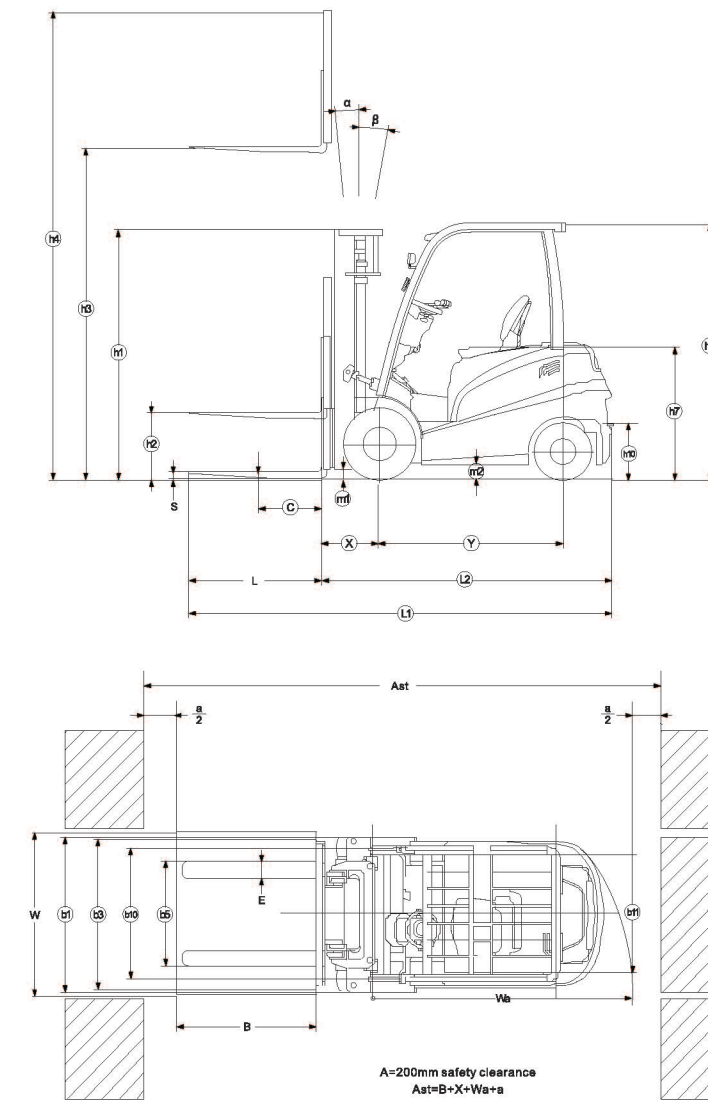
**New designed sideway battery changing is an option to meet different customer requirement. And which is very suitable for two or three shifts working.**

- Advance ergonomically design cab, better operator comfort
- Parking brake design meets ISO3691
- Customaries color
- Battery cover with auto lock spring for easy battery service and replacing
- Advanced import AC controller (new series)
- Easy opened counter weight cover, to protect internal controller to avoid water and dust.
- Advanced transverse layout driving component.
- Sideway battery change option, easy to replacing battery
- Battery with lifting holes, no need to equip trolley, and battery can be put on ground to saving space and cost.
- Big LED dashboard, fault code shown in English
- Big dimension rubber pad

**LOAD CHART**



**DIMENSIONS**



**A series 1.0-3.5t electric forklift specification:**

| Distinguishing mark   | CHANGLIN  |            |            |            |             |             |             |             |             |            |            |            |             |             |             |             |             |            |            |            |             |             |             |             |
|---|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|-------------|
|   | CPD10-AC3 | CPD15-AC3  | CPD18-AC3  | CPD20-AC3  | CPD25-AC3   | CPD25-ALC3  | CPD30-AC3   | CPD35-AC3   | CPD10-AC4   | CPD15-AC4  | CPD18-AC4  | CPD20-AC4  | CPD25-AC4   | CPD25-ALC4  | CPD30-AC4   | CPD35-AC4   | CPD10-AD2   | CPD15-AD2  | CPD18-AD2  | CPD20-AD2  | CPD25-AD2   | CPD25-ALD2  | CPD30-AD2   | CPD35-AD2   |
| 1.1 Manufacturer (abbreviation)                                     |           |            |            |            |             |             |             |             |             |            |            |            |             |             |             |             |             |            |            |            |             |             |             |             |
| 1.2 Manufacturer type designation                                   |           |            |            |            |             |             |             |             |             |            |            |            |             |             |             |             |             |            |            |            |             |             |             |             |
| 1.3 Drive: electric (battery or mains), diesel, petrol, fuel gas    | electric  | electric   | electric   | electric   | electric    | electric    | electric    | electric    | electric    | electric   | electric   | electric   | electric    | electric    | electric    | electric    | electric    | electric   | electric   | electric   | electric    | electric    | electric    | electric    |
| 1.4 Operator type: hand, pedestrian, standing, seated, order-picker | seated    | seated     | seated     | seated     | seated      | seated      | seated      | seated      | seated      | seated     | seated     | seated     | seated      | seated      | seated      | seated      | seated      | seated     | seated     | seated     | seated      | seated      | seated      | seated      |
| 1.5 Load capacity/rated load  | Q (kg)    | 1000       | 1500       | 1750       | 2000        | 2500        | 2500        | 3000        | 3600        | 1000       | 1500       | 1750       | 2000        | 2500        | 2500        | 3000        | 3600        | 1000       | 1500       | 1750       | 2000        | 2500        | 2500        | 3000        |
| 1.6 Load centre distance  | c (mm)    | 500        | 500        | 500        | 500         | 500         | 500         | 500         | 500         | 500        | 500        | 500        | 500         | 500         | 500         | 500         | 500         | 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         | 475         | 406        | 406        | 406        | 455         | 455         | 455         | 475         | 475         | 406        | 406        | 406        | 455         | 455         | 455         | 475         |
| 1.9 Wheelbase   | y (mm)    | 1380       | 1380       | 1380       | 1485        | 1485        | 1625        | 1625        | 1380        | 1380       | 1380       | 1485       | 1485        | 1625        | 1625        | 1380        | 1380        | 1380       | 1485       | 1485       | 1625        | 1625        | 1625        | 1625        |
| 2.1 Service Weight  | kg        | 2940       | 2940       | 3090       | 3700        | 4180        | 4580        | 5050        | 5450        | 2940       | 2940       | 3090       | 3700        | 4180        | 4580        | 5050        | 2940        | 2940       | 3090       | 3700       | 4180        | 4580        | 5050        | 5450        |
| 2.2 Axle loading, laden front/rear                                  | kg        | 3900/540   | 3900/540   | 4300/590   | 5016/684    | 5920/760    | 6335/725    | 7160/890    | 8020/930    | 3900/540   | 3900/540   | 4300/590   | 5016/684    | 5920/760    | 6335/725    | 7160/890    | 8020/930    | 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   | 2450/3000   | 1353/1587  | 1353/1587  | 1440/1650  | 1628/2072   | 1780/2400   | 2130/2450   | 2424/2626   | 2450/3000   | 1353/1587  | 1353/1587  | 1440/1650  | 1628/2072   | 1780/2400   | 2130/2450   | 2424/2626   |
| 3.1 Tyre: solid rubber, superelastic, pneumatic, polyurethane       |           | Pneumatic  | Pneumatic  | Pneumatic  | Pneumatic   | Pneumatic   | Pneumatic   | Pneumatic   | Pneumatic   | Pneumatic  | Pneumatic  | Pneumatic  | Pneumatic   | Pneumatic   | Pneumatic   | Pneumatic   | Pneumatic   | Pneumatic  | Pneumatic  | Pneumatic  | Pneumatic   | Pneumatic   | Pneumatic   | Pneumatic   |
| 3.2 Tyre size, front  |           | 6.00-9     | 6.00-9     | 21x8-9     | 23x9-10     | 23x9-10     | 23x9-10     | 23x9-10     | 23x10-12    | 6.00-9     | 6.00-9     | 21x8-9     | 23x9-10     | 23x9-10     | 23x9-10     | 23x9-10     | 23x10-12    | 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      | 18x7-8      | 200/50-10   | 5.00-8     | 5.00-8     | 5.00-8     | 18x7-8      | 18x7-8      | 18x7-8      | 18x7-8      | 200/50-10   | 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        | 2x/2        | 2x/2       | 2x/2       | 2x/2       | 2x/2        | 2x/2        | 2x/2        | 2x/2        | 2x/2        | 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        | 1058        | 1068        | 888        | 888        | 938        | 1058        | 1058        | 1058        | 1068        | 888         | 888        | 938        | 1058       | 1058        | 1058        | 1068        | 1068        |
| 3.7 Tread, rear   | b11(mm)   | 897.5      | 897.5      | 897.5      | 960         | 960         | 960         | 960         | 960         | 897.5      | 897.5      | 897.5      | 960         | 960         | 960         | 960         | 897.5       | 897.5      | 897.5      | 960        | 960         | 960         | 960         | 960         |
| 4.1 Tilt of mast/fork carriage forward/backward                     | Grad      | 5/10       | 5/10       | 5/10       | 5/10        | 5/10        | 5/10        | 5/10        | 5/10        | 5/10       | 5/10       | 5/10       | 5/10        | 5/10        | 5/10        | 5/10        | 5/10        | 5/10       | 5/10       | 5/10       | 5/10        | 5/10        | 5/10        | 5/10        |
| 4.2 Height, mast lowered  | h1(mm)    | 1995       | 1995       | 1995       | 2070        | 2070        | 2070        | 2100        | 2100        | 1995       | 1995       | 1995       | 2070        | 2070        | 2070        | 2100        | 1995        | 1995       | 1995       | 2070       | 2070        | 2070        | 2100        | 2100        |
| 4.3 Free lift   | h2(mm)    | 135        | 135        | 135        | 140         | 140         | 140         | 145         | 145         | 135        | 135        | 135        | 140         | 140         | 140         | 145         | 135         | 135        | 135        | 140        | 140         | 140         | 145         | 145         |
| 4.5 Lift  | h3(mm)    | 3000       | 3000       | 3000       | 3000        | 3000        | 3000        | 3000        | 3000        | 3000       | 3000       | 3000       | 3000        | 3000        | 3000        | 3000        | 3000        | 3000       | 3000       | 3000       | 3000        | 3000        | 3000        | 3000        |
| 4.6 Height, mast extended   | h4(mm)    | 3935       | 3935       | 3935       | 4040        | 4040        | 4040        | 4135        | 4135        | 3935       | 3935       | 3935       | 4040        | 4040        | 4040        | 4135        | 3935        | 3935       | 3935       | 4040       | 4040        | 4040        | 4135        | 4135        |
| 4.7 Height of overhead guard STD.                                   | h6(mm)    | 2050       | 2050       | 2050       | 2075        | 2075        | 2110        | 2110        | 2110        | 2050       | 2050       | 2050       | 2075        | 2075        | 2110        | 2110        | 2050        | 2050       | 2050       | 2075       | 2075        | 2110        | 2110        | 2110        |
| 4.8 Height of higher overhead guard OPT.                            | h8(mm)    | 2130       | 2130       | 2130       | 2155        | 2155        | 2190        | 2190        | 2190        | 2130       | 2130       | 2130       | 2155        | 2155        | 2190        | 2190        | 2130        | 2130       | 2130       | 2155       | 2155        | 2190        | 2190        | 2190        |
| 4.9 Seat height/stand height  | h7(mm)    | 1045       | 1045       | 1045       | 1070        | 1070        | 1070        | 1070        | 1070        | 1045       | 1045       | 1045       | 1070        | 1070        | 1070        | 1070        | 1045        | 1045       | 1045       | 1070       | 1070        | 1070        | 1070        | 1070        |
| 4.12 Coupling length  | h10(mm)   | 275        | 275        | 275        | 303         | 303         | 303         | 303         | 303         | 275        | 275        | 275        | 303         | 303         | 303         | 303         | 275         | 275        | 275        | 303        | 303         | 303         | 303         | 303         |
| 4.19 Overall length   | l1(mm)    | 3018       | 3018       | 3018       | 3412        | 3412        | 3552        | 3572        | 3552        | 3018       | 3018       | 3018       | 3412        | 3412        | 3552        | 3572        | 3018        | 3018       | 3018       | 3412       | 3412        | 3552        | 3572        | 3552        |
| 4.20 Length to face of forks  | l2(mm)    | 2098       | 2098       | 2098       | 2342        | 2342        | 2482        | 2502        | 2582        | 2098       | 2098       | 2098       | 2342        | 2342        | 2482        | 2502        | 2098        | 2098       | 2098       | 2342       | 2342        | 2482        | 2502        | 2582        |
| 4.21 Overall width  | b1(mm)    | 1120       | 1120       | 1138       | 1265        | 1265        | 1265        | 1302        | 1302        | 1120       | 1120       | 1138       | 1265        | 1265        | 1302        | 1302        | 1120        | 1120       | 1138       | 1265       | 1265        | 1302        | 1302        | 1302        |
| 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 | 50/125/1070 | 35/120/920 | 35/120/920 | 35/120/920 | 40/122/1070 | 40/122/1070 | 40/122/1070 | 45/125/1070 | 50/125/1070 | 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  | ISO2328 3A  | ISO2328 2A | ISO2328 2A | ISO2328 2A | ISO2328 2A  | ISO2328 2A  | ISO2328 3A  | ISO2328 3A  | ISO2328 2A  | ISO2328 2A | ISO2328 2A | ISO2328 2A | ISO2328 2A  | ISO2328 2A  | ISO2328 3A  | ISO2328 3A  |
| 4.24 Fork-carriage width  | b3(mm)    | 1000       | 1000       | 1000       | 1038        | 1038        | 1038        | 1100        | 1100        | 1000       | 1000       | 1000       | 1038        | 1038        | 1038        | 1100        | 1000        | 1000       | 1000       | 1038       | 1038        | 1038        | 1100        | 1100        |
| 4.25 Distance between fork-arms                                     | b5(mm)    | 240/1000   | 240/1000   | 240/1000   | 260/1038    | 260/1038    | 260/1038    | 290/1100    | 290/1100    | 240/1000   | 240/1000   | 240/1000   | 260/1038    | 260/1038    | 260/1038    | 290/1100    | 290/1100    | 240/1000   | 240/1000   | 240/1000   | 260/1038    | 260/1038    | 260/1038    | 290/1100    |
| 4.31 Ground clearance, laden, below mast                            | m1(mm)    | 100        | 100        | 100        | 112         | 112         | 112         | 115         | 115         | 100        | 100        | 100        | 112         | 112         | 112         | 115         | 100         | 100        | 100        | 112        | 112         | 112         | 115         | 115         |
| 4.32 Ground clearance, centre of wheelbase                          | m2(mm)    | 110        | 110        | 110        | 120         | 120         | 125         | 125         | 125         | 110        | 110        | 110        | 120         | 120         | 125         | 125         | 110         | 110        | 110        | 120        | 120         | 125         | 125         | 125         |
| 4.33 Aisle width for pallets 1000 x 1200 crossways                  | Asl(mm)   | 3506       | 3506       | 3506       | 3745        | 3745        | 3885        | 3905        | 3985        | 3506       | 3506       | 3506       | 3745        | 3745        | 3885        | 3905        | 3506        | 3506       | 3506       | 3745       | 3745        | 3885        | 3905        | 3985        |
| 4.34 Aisle width for pallets 800 x 1200 crossways                   | Asl(mm)   | 3706       | 3706       | 3706       | 3945        | 3945        | 4085        | 4105        | 4185        | 3706       | 3706       | 3706       | 3945        | 3945        | 4085        | 4105        | 3706        | 3706       | 3706       | 3945       | 3945        | 4085        | 4105        | 4185        |
| 4.35 Turning radius   | Wt(mm)    | 1900       | 1900       | 1900       | 2090        | 2090        | 2230        | 2230        | 2310        | 1900       | 1900       | 1900       | 2090        | 2090        | 2230        | 2230        | 1900        | 1900       | 1900       | 2090       | 2090        | 2230        | 2230        | 2310        |
| 4.38 Internal turning radius  | b13(mm)   | 620        | 620        | 680        | 730         | 730         | 730         | 730         | 730         | 620        | 620        | 680        | 730         | 730         | 730         | 730         | 620         | 620        | 680        | 730        | 730         | 730         | 730         | 730         |
| 5.1 Travel speed, laden/unladen                                     | km/h      | 14/14      | 14/14      | 13.5/14    | 14/14       | 14/14       | 14/14       | 12/13       | 14/14       | 14/14      | 14/14      | 14/14      | 14/14       | 14/14       | 12/13       | 14/14       | 14/14       | 14/14      | 14/14      | 14/14      | 14/14       | 14/14       | 14/14       | 12/13       |
| 5.2 Lift speed, laden/unladen                                       | mm/s      | 290/440    | 290/440    | 285/440    | 280/440     | 230/430     | 230/430     | 250/400     | 210/400     | 290/440    | 290/440    | 285/440    | 280/440     | 230/430     | 230/430     | 250/400     | 210/400     | 290/440    | 290/440    | 285/440    | 280/440     | 230/430     | 230/430     | 210/400     |
| 5.3 Lowering speed, laden/unladen                                   | mm/s      | 300/410    | 300/410    | 275/420    | 285/420     | 215/410     | 215/410     | 280/390     | 280/370     | 300/410    | 300/410    | 275/420    | 285/420     | 215/410     | 215/410     | 280/390     | 280/370     | 300/410    | 300/410    | 275/420    | 285/420     | 215/410     | 215/410     | 280/390     |
| 5.5 Drawbar pull, laden/unladen                                     | N         | 9000/10000 | 9000/10000 | 9500/11000 | 12000/12500 | 16000/17000 | 16000/17000 | 20000/21000 | 20500/21000 | 9000/10000 | 9000/10000 | 9500/11000 | 12000/12500 | 16000/17000 | 16000/17000 | 20000/21000 | 20500/21000 | 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       | 23000       | 11000      | 11000      | 12000      | 14000       | 18000       | 18000       | 22000       | 23000       | 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       | 12/13       | 12/13      | 12/13      | 12/13      | 11/12       | 11/12       | 11/12       | 12/13       | 12/13       | 12/13      | 12/13      | 11/12      | 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       | 13/14       | 15/16      | 15/16      | 13/14      | 13/14       | 13/14       | 13/14       | 13/14       | 15/16       | 15/16      | 15/16      | 13/14      | 13/14       | 13/14       | 13/14       | 13/14       |
| 5.9 Acceleration time, laden/unladen (0-10m)                        | s         | 5.0/5.3    | 5.0/5.3    | 5.1/5.3    | 5.2/4.6     | 5.3/4.7     | 5.3/5       | 5.3/5       | 5.5/5.2     | 5.0/5.3    | 5.0/5.3    | 5.1/5.3    | 5.2/4.6     | 5.3/4.7     | 5.3/5       | 5.3/5       | 5.5/5.2     | 5.0/5.3    | 5.0/5.3    | 5.1/5.3    | 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   | Hydraulic   | Hydraulic  | Hydraulic  | Hydraulic  | Hydraulic   | Hydraulic   | Hydraulic   | Hydraulic   | Hydraulic   | Hydraulic  | Hydraulic  | Hydraulic  | Hydraulic   | Hydraulic   | Hydraulic   | Hydraulic   |
| 5.11 Parking brake  |           | Mechanical | Mechanical | Mechanical | Mechanical  | Mechanical  | Mechanical  | Mechanical  | Mechanical  | Mechanical | Mechanical | Mechanical | Mechanical  | Mechanical  | Mechanical  | Mechanical  | Mechanical  | Mechanical | Mechanical | Mechanical | Mechanical  | Mechanical  | Mechanical  | Mechanical  |
| 6.1 Drive motor rating S2 60 min                                    | kW        | 8 AC       | 8 AC       | 8 AC       | 11 AC       | 11 AC       | 15 AC       | 15 AC       | 15 AC       | 8 AC       | 8 AC       |            |             |             |             |             |             |            |            |            |             |             |             |             |