



HELI product range: 1-70t internal combustion forklifts; 0.6-55t electric forklifts; warehouse products such as reach trucks, pallet trucks and stackers; AGV and intelligent logistics solutions; Diversified products such as reach stacker, container handlers, tractors, explosion-proof forklifts, and rough-terrain forklifts.



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HELI

# 12-18 t G3 series Lithium-ion Counterbalanced Forklift



CPD120-A19LLIG3-09  
CPD140/150/160/180-A19LLIG3-09

CPD135/150/160/180-A19LLIG3-06  
CPD140/150/160/180-A19LLIG3-12

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*With more than 60 years  
of Heli technical precipitation*

HELI collaborates with the  
strengths of others and creates  
high-quality products.



HELI 12-18t G3 series electric forklifts are widely used in factories, stations, ports, docks and ship holds. They handle extra-heavy and oversized goods, as well as transport and stack empty containers of certain models.

# A

## CHARACTERISTIC

### 1

## MATURE PLATFORM

ENSURE THE DURABILITY AND RELIABILITY OF PRODUCTS

60+ Years of Craftsmanship,  
HELI Keeps Innovating

HELI's heavy-duty lithium electric forklifts are built on a proven platform. Our self-made standardized integrated battery box fits multiple models of different tonnages, which greatly cuts spare part and management costs.



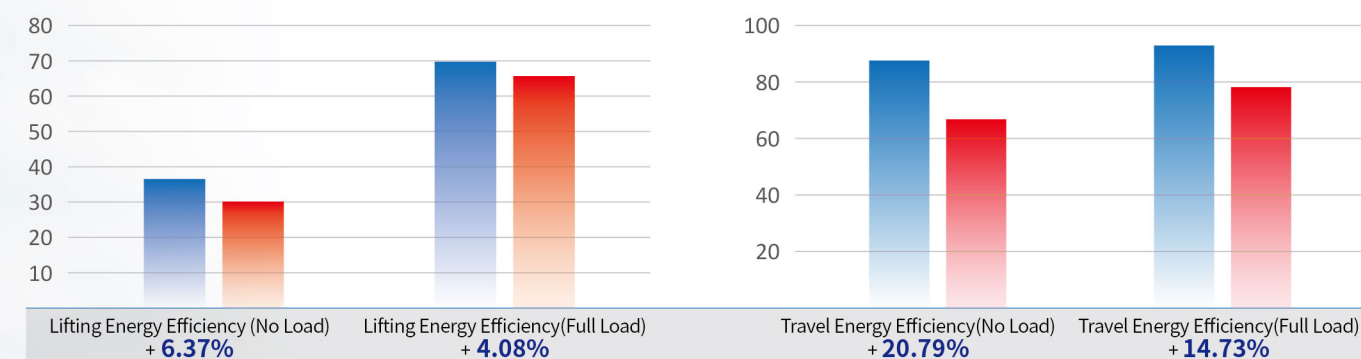
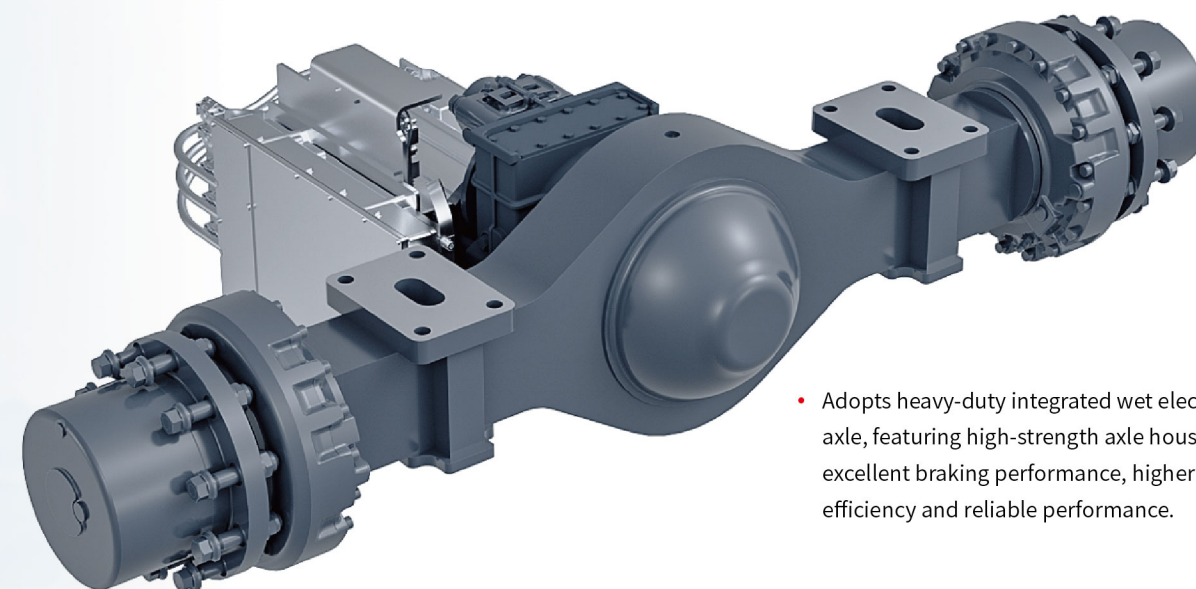
### 2

## POWERFUL PERFORMANCE

THE MAX OVERALL VEHICLE ENERGY EFFICIENCY IS IMPROVED BY OVER 20% COMPARED WITH THE G SERIES

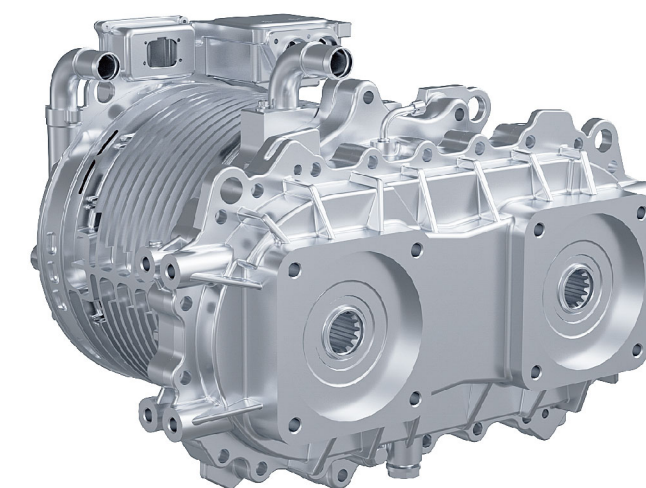
- Superior performance and higher efficiency compared with G Series electric forklifts.

G Series Heavy-Duty Lithium Forklift  
G3 Series Heavy-Duty Lithium Forklift



- Adopts heavy-duty integrated wet electric drive axle, featuring high-strength axle housing, excellent braking performance, higher handling efficiency and reliable performance.

- Equipped with high-speed permanent magnet synchronous motor, delivering high operating efficiency, rapid response and outstanding energy-saving performance.
- The hydraulic system boasts superior performance, excellent maneuverability, high precision and stable reliability.

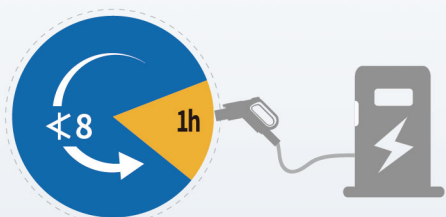


## 3

## WORRY-FREE ENDURANCE

## COMPATIBLE WITH NEW ENERGY VEHICLE CHARGING PILES

Lithium batteries with various capacities are optional to meet diverse customer demands. A 1-hour dual-gun charging session supports up to 8 hours of operation under standard working conditions.

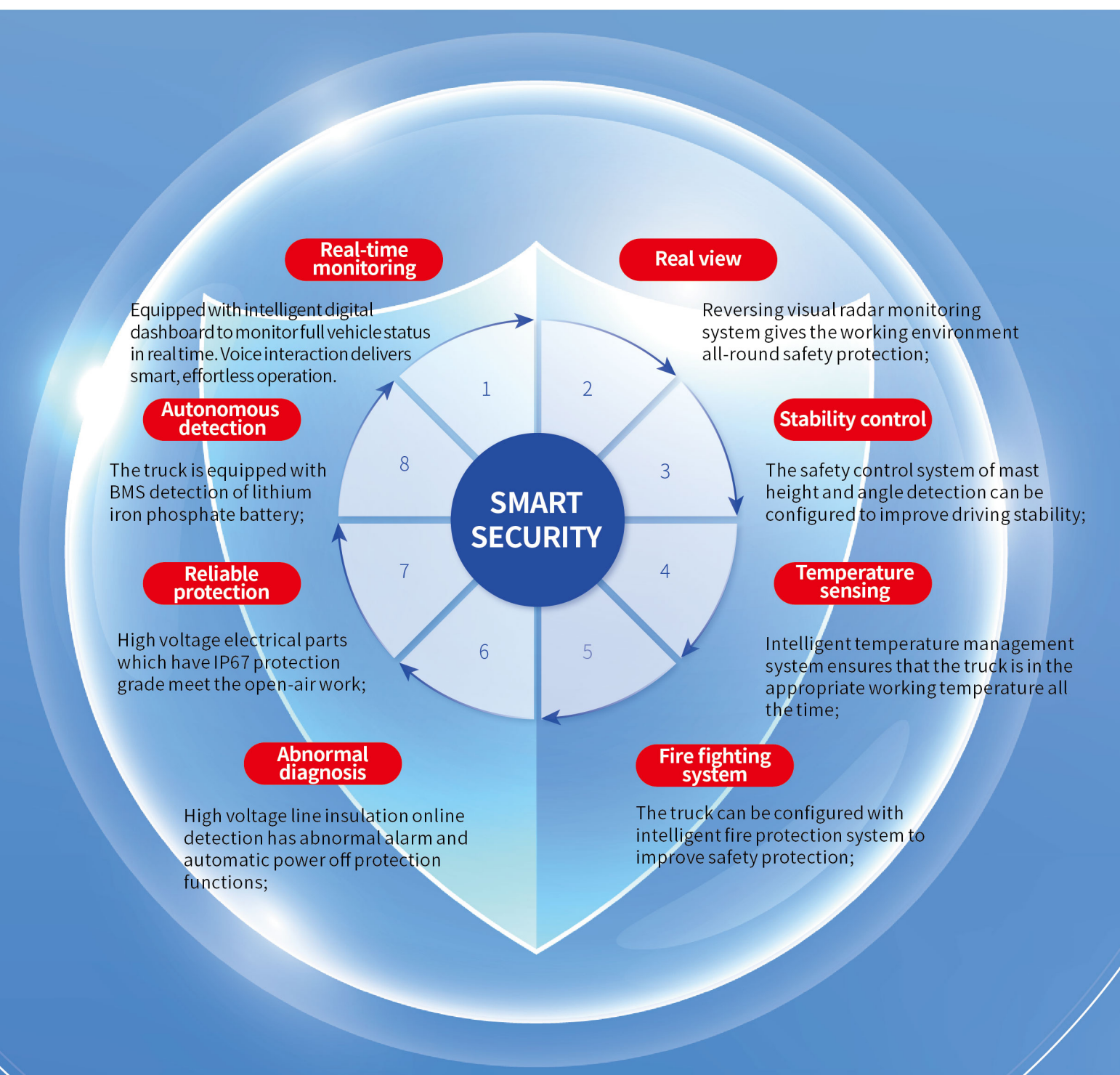


## 4

## INTELLIGENT SAFETY

## 8-LAYER SAFETY PROTECTION

- The vehicle's high-voltage circuit supports online insulation monitoring to track overall vehicle conditions in real time.
- High-voltage electrical components carry IP67 protection rating. Equipped with an intelligent thermal management system, the forklift adapts to all-weather outdoor operations.
- Voice interaction delivers smart, effortless operation.





## 5

### COMFORT & ECO-FRIENDLINESS

RELIEVE FATIGUE FROM LONG-HOUR DRIVING, SUSTAIN CONSISTENT FOCUS DURING OPERATION



#### Ergonomic Cabin

Supportive, shock-absorbing and adjustable, designed for extended shifts.



#### Integrated Control Zone

Shorter hand movement range with frequently used controls centralized.



#### Extra-Large Display Interface

Vehicle status, battery level and alarm information all visible on a single screen.



## 6

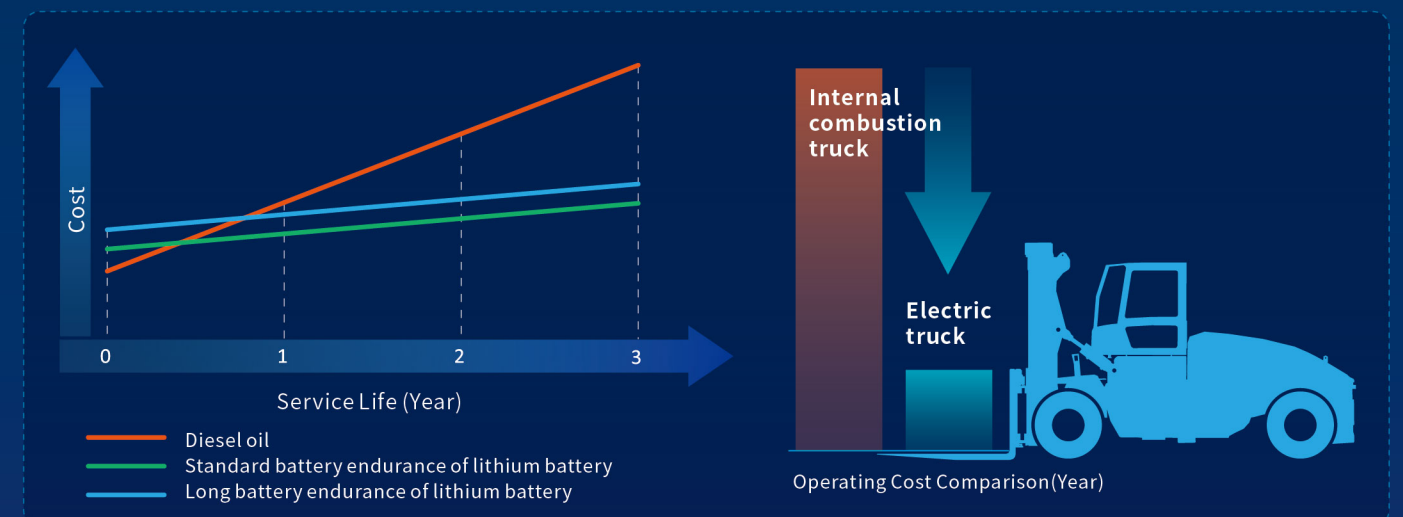
### EASY MAINTENANCE

TOTAL COST OF OPERATION IS ONLY 27% OF INTERNAL COMBUSTION FORKLIFTS

- Large tilting opening angle of cab provides ample maintenance access space.
- Equipped with new built-in oil suction filter in fuel tank for convenient filter element replacement.
- Self-developed HELI integrated battery box with sealed housing and plug-in connectors, enabling safer and simpler operation & maintenance.



- Equipped with kinetic energy recovery technology to recapture energy and recharge the battery, further boosting system efficiency and vehicle endurance. The annual total operating cost of electric forklifts is only **27%** of internal combustion forklifts.

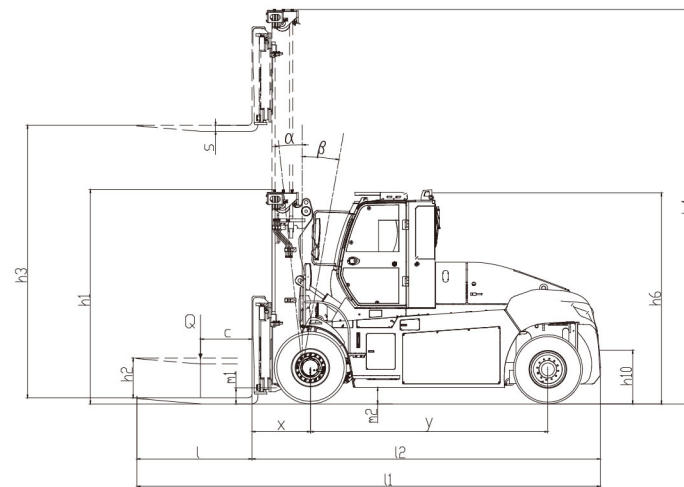
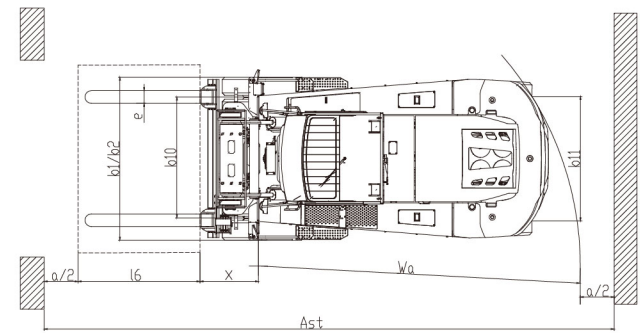
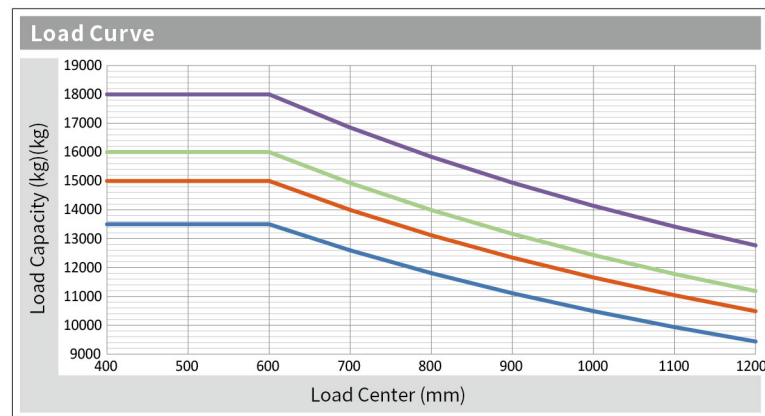


\* Data may fluctuate due to varying working conditions, electricity and fuel price changes; figures are for reference only.

# TECHNICAL PARAMETERS

**Manufacturer & Technical Specifications (Table 1)**

| Characteristics |                                                      |            |                                      |                    |                    |                    |                    |
|-----------------|------------------------------------------------------|------------|--------------------------------------|--------------------|--------------------|--------------------|--------------------|
| 1.1             | Manufacturer                                         |            | HELI                                 |                    |                    |                    |                    |
| 1.2             | Model                                                |            | CPD120-A19LLIG3-09                   | CPD135-A19LLIG3-06 | CPD150-A19LLIG3-06 | CPD160-A19LLIG3-06 | CPD180-A19LLIG3-06 |
| 1.3             | Power Type                                           |            | LFP Battery                          |                    |                    |                    |                    |
| 1.4             | Operation Type                                       |            | Sit-down Type                        |                    |                    |                    |                    |
| 1.5             | Rated Load Capacity                                  | Q(kg)      | 12000                                | 13500              | 15000              | 16000              | 18000              |
| 1.6             | Load Center Distance                                 | c (mm)     | 900                                  | 600                |                    |                    |                    |
| 1.7             | Front Overhang                                       | x (mm)     | 795                                  |                    |                    |                    |                    |
| 1.8             | Wheelbase                                            | y (mm)     | 3250                                 |                    |                    |                    |                    |
| Weight          |                                                      |            |                                      |                    |                    |                    |                    |
| 2.1             | Overall Weight                                       | kg         | 18900                                | 18900              | 19500              | 19950              | 20500              |
| Tyres / Chassis |                                                      |            |                                      |                    |                    |                    |                    |
| 3.1             | Tyre Type                                            |            | Pneumatic Tyres                      |                    |                    |                    |                    |
| 3.2             | Front Tyre Size                                      |            | 12.00-20-20PR                        |                    |                    |                    |                    |
| 3.3             | Rear Tyre Size                                       |            | 12.00-20-20PR                        |                    |                    |                    |                    |
| 3.4             | Number of Front / Rear Wheels                        |            | 4/2                                  |                    |                    |                    |                    |
| 3.5             | Front Track Width                                    | b10 (mm)   | 1888                                 |                    |                    |                    |                    |
| 3.6             | Rear Track Width                                     | b11 (mm)   | 2120                                 |                    |                    |                    |                    |
| Dimensions      |                                                      |            |                                      |                    |                    |                    |                    |
| 4.1             | Mast Tilt Angle (Forward / Backward)                 | α/β (° )   | 6/12                                 |                    |                    |                    |                    |
| 4.2             | Mast Overall Height (Forks on ground, mast vertical) | h1(mm)     | 3425                                 |                    |                    |                    |                    |
| 4.3             | Overall Vehicle Height                               | h15 (mm)   | 3425                                 |                    |                    |                    |                    |
| 4.4             | Free Lift Height                                     | h2 (mm)    | 85                                   |                    |                    |                    |                    |
| 4.5             | Standard Lift Height                                 | h3 (mm)    | 3000                                 |                    |                    |                    |                    |
| 4.6             | Max Working Height                                   | h4 (mm)    | 4925                                 |                    |                    |                    |                    |
| 4.7             | Cab Height                                           | h6 (mm)    | 3357                                 |                    |                    |                    |                    |
| 4.8             | Height of Drawbar Pin                                | h10 (mm)   | 670                                  |                    |                    |                    |                    |
| 4.9             | Overall Length (With Forks)                          | l1(mm)     | 6715                                 | 6265               |                    |                    |                    |
| 4.10            | Overall Length (Without Forks)                       | l2 (mm)    | 4895                                 |                    |                    |                    |                    |
| 4.11            | Vehicle Width / Wheel Width                          | b1/b2 (mm) | 2600/2600                            |                    |                    |                    |                    |
| 4.12            | Fork Dimensions                                      | s/e/l (mm) | 85×200×1820                          | 85×200×1370        |                    |                    |                    |
| 4.13            | Carriage Width                                       | b3 (mm)    | 2560                                 |                    |                    |                    |                    |
| 4.14            | Ground Clearance (Full Load, At Mast)                | m1 (mm)    | 260                                  |                    |                    |                    |                    |
| 4.15            | Ground Clearance (Full Load, At Wheelbase Center)    | m2 (mm)    | 255                                  |                    |                    |                    |                    |
| 4.16            | Aisle Width for Right-Angle Stacking                 | Ast (mm)   | 5395+l6                              |                    |                    |                    |                    |
| 4.17            | Outside Min Turning Radius                           | Wa (mm)    | 4400                                 |                    |                    |                    |                    |
| Performance     |                                                      |            |                                      |                    |                    |                    |                    |
| 5.1             | Travel Speed (Full Load / No Load)                   | km/h       | 25/25                                |                    |                    |                    |                    |
| 5.2             | Lifting Speed (Full Load / No Load)                  | mm/s       | 370/400                              |                    |                    |                    |                    |
| 5.3             | Lowering Speed (Full Load / No Load)                 | mm/s       | 400/400                              |                    |                    |                    |                    |
| 5.4             | Max Traction Force (Full Load / No Load)             | kN         | 105/-                                |                    |                    |                    |                    |
| 5.5             | Max Gradeability (Full Load / No Load)               | %          | 25/25                                |                    |                    |                    |                    |
| 5.6             | Service Brake                                        |            | Multi-disc Wet Hydraulic Brake (WDB) |                    |                    |                    |                    |
| 5.7             | Parking Brake                                        |            | Hydraulic Release Spring Brake       |                    |                    |                    |                    |
| Motors          |                                                      |            |                                      |                    |                    |                    |                    |
| 6.1             | Rated Power of Traction Motor                        | kW         | 147                                  |                    |                    |                    |                    |
| 6.2             | Rated Power of Lifting Motor                         | kW         | 105                                  |                    |                    |                    |                    |
| 6.3             | Battery Voltage / Nominal Capacity                   | (V)/(Ah)   | 608/346                              |                    |                    |                    |                    |
| Others          |                                                      |            |                                      |                    |                    |                    |                    |
| 7.1             | Hydraulic System Operating Pressure                  | bar        | 225                                  |                    |                    |                    |                    |
| 7.2             | Attachment Operating Pressure                        | bar        | 140                                  |                    |                    |                    |                    |
| 7.3             | Sound Pressure Level at Operator Position            | dB(A)      | 73                                   |                    |                    |                    |                    |



— 13.5t-600  
— 15t-600  
— 16t-600  
— 18t-600

**NOTE:**  
The load center is measured from the front face of the forks. The reference point of standard load center refers to the geometric center of a cube with 1200 mm side length. The rated load capacity will decrease if the mast is tilted forward, non-standard forks are used, or load exceeding the standard width are carried. This load capacity curve enables quick lookup of the available lifting capacity at different load center distances.

**Mast Parameters for CPD120-A19LLIG3-09, CPD135/150/160-A19LLIG3-06**

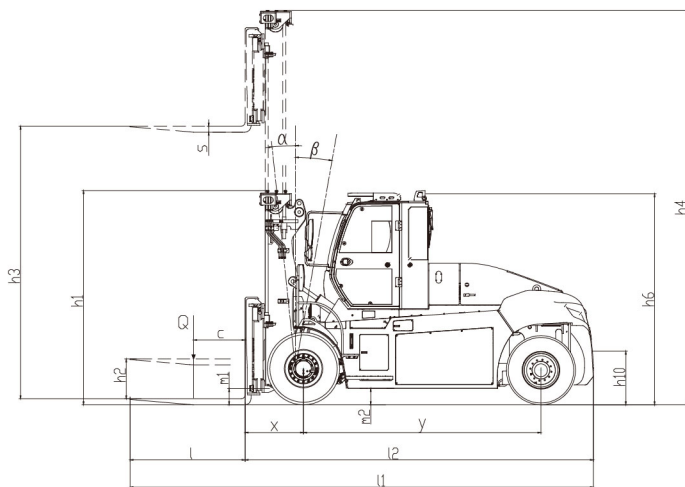
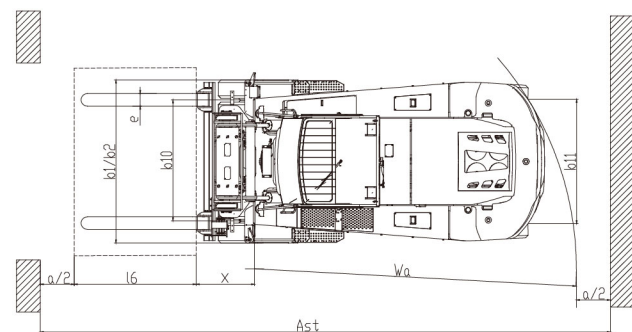
| Mast Model | Max Lift Height (mm) | Load Capacity (Load Center 900 mm) (kg) | Load Capacity (Load Center 600 mm) (kg) |        |        |      | Overall Mast Height (Forks Lowered to Ground) (mm) | Max Extended Mast Height (mm) | Mast Tilt Angle α/β (°) |
|------------|----------------------|-----------------------------------------|-----------------------------------------|--------|--------|------|----------------------------------------------------|-------------------------------|-------------------------|
|            |                      | CPD120                                  | CPD135                                  | CPD150 | CPD160 |      |                                                    |                               |                         |
| M300       | 3000                 | 12000                                   | 13500                                   | 15000  | 16000  | 3425 | 4925                                               | 6/12                          |                         |
| M350       | 3500                 | 12000                                   | 13500                                   | 15000  | 16000  | 3495 | 5245                                               | 6/12                          |                         |
| M400       | 4000                 | 12000                                   | 13500                                   | 15000  | 16000  | 3745 | 5745                                               | 6/12                          |                         |
| M450       | 4500                 | 12000                                   | 13500                                   | 15000  | 16000  | 3995 | 6245                                               | 6/12                          |                         |
| M500       | 5000                 | 12000                                   | 13500                                   | 15000  | 16000  | 4295 | 6795                                               | 6/6                           |                         |
| M550       | 5500                 | 11000                                   | 12500                                   | 14000  | 15000  | 4545 | 7295                                               | 3/6                           |                         |
| M600       | 6000                 | 10000                                   | 11500                                   | 13000  | 14000  | 4845 | 7845                                               | 3/6                           |                         |
| M650       | 6500                 | 9000                                    | 10500                                   | 12000  | 13000  | 5095 | 8345                                               | 3/6                           |                         |
| M700       | 7000                 | 8000                                    | 9500                                    | 11000  | 12000  | 5345 | 8845                                               | 3/6                           |                         |
| M750       | 7500                 | 7000                                    | 8500                                    | 10000  | 11000  | 5645 | 9395                                               | 3/6                           |                         |

**Mast Parameters for CPD180-A19LLIG3-06**

| Mast Model | Max Lift Height (mm) | Load Capacity (Load Center 600 mm) (kg) | Overall Mast Height (Forks Lowered to Ground) (mm) | Max Extended Mast Height (mm) | Mast Tilt Angle $\alpha/\beta$ (°) |
|------------|----------------------|-----------------------------------------|----------------------------------------------------|-------------------------------|------------------------------------|
|            |                      | CPD180                                  |                                                    |                               |                                    |
| M300       | 3000                 | 18000                                   | 3425                                               | 4925                          | 6/12                               |
| M350       | 3500                 | 18000                                   | 3530                                               | 5280                          | 6/12                               |
| M400       | 4000                 | 18000                                   | 3780                                               | 5780                          | 6/12                               |
| M450       | 4500                 | 18000                                   | 4030                                               | 6280                          | 6/12                               |
| M500       | 5000                 | 18000                                   | 4280                                               | 6780                          | 6/6                                |
| M550       | 5500                 | 17000                                   | 4530                                               | 7280                          | 3/6                                |
| M600       | 6000                 | 16000                                   | 4780                                               | 7780                          | 3/6                                |
| M650       | 6500                 | 15000                                   | 5030                                               | 8280                          | 3/6                                |
| M700       | 7000                 | 14000                                   | 5280                                               | 8780                          | 3/6                                |

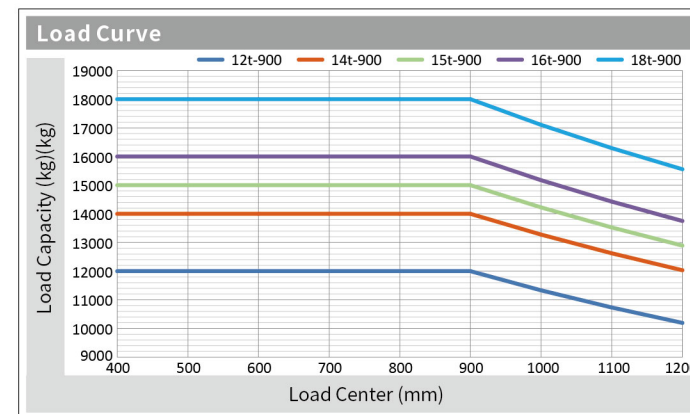
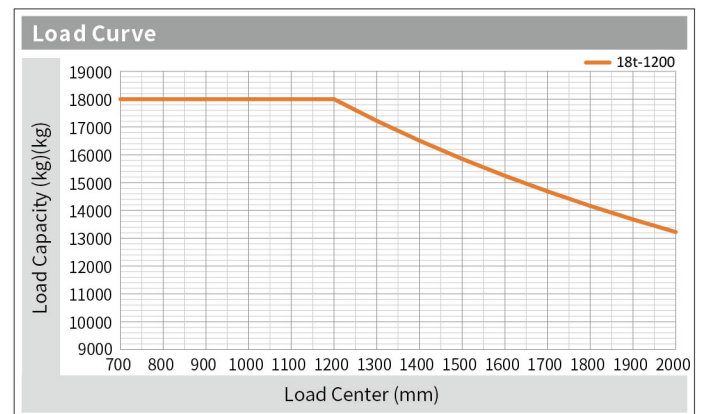
Manufacturer &amp; Technical Specifications (Table 2)

| Characteristics |                                                      |                    |                                      |                    |                                       |
|-----------------|------------------------------------------------------|--------------------|--------------------------------------|--------------------|---------------------------------------|
| 1.1             | Manufacturer                                         |                    | HELI                                 |                    |                                       |
| 1.2             | Model                                                |                    | CPD140-A19LLIG3-09                   | CPD150-A19LLIG3-09 | CPD160-A19LLIG3-09 CPD180-A19LLIG3-09 |
| 1.3             | Power Type                                           |                    | LFP Battery                          |                    |                                       |
| 1.4             | Operation Type                                       |                    | Sit-down Type                        |                    |                                       |
| 1.5             | Rated Load Capacity                                  | Q(kg)              | 14000                                | 15000              | 16000 18000                           |
| 1.6             | Load Center Distance                                 | c (mm)             | 900                                  |                    |                                       |
| 1.7             | Front Overhang                                       | x (mm)             | 930                                  |                    | 1010                                  |
| 1.8             | Wheelbase                                            | y (mm)             | 3750                                 |                    |                                       |
| Weight          |                                                      |                    |                                      |                    |                                       |
| 2.1             | Overall Weight                                       | kg                 | 21500                                | 22000              | 22800 24000                           |
| Tyres / Chassis |                                                      |                    |                                      |                    |                                       |
| 3.1             | Tyre Type                                            |                    | Pneumatic Tyres                      |                    |                                       |
| 3.2             | Front Tyre Size                                      |                    | 12.00-20-20PR                        |                    | 12.00-24-20PR                         |
| 3.3             | Rear Tyre Size                                       |                    | 12.00-20-24PR                        |                    | 12.00-24-20PR                         |
| 3.4             | Number of Front / Rear Wheels                        |                    | 4/2                                  |                    |                                       |
| 3.5             | Front Track Width                                    | b10 (mm)           | 1888                                 |                    |                                       |
| 3.6             | Rear Track Width                                     | b11 (mm)           | 2120                                 |                    |                                       |
| Dimensions      |                                                      |                    |                                      |                    |                                       |
| 4.1             | Mast Tilt Angle (Forward / Backward)                 | $\alpha/\beta$ (°) | 6/12                                 |                    |                                       |
| 4.2             | Mast Overall Height (Forks on ground, mast vertical) | h1(mm)             | 3340                                 |                    | 3385                                  |
| 4.3             | Overall Vehicle Height                               | h15 (mm)           | 3357                                 |                    | 3385                                  |
| 4.4             | Free Lift Height                                     | h2 (mm)            | 95                                   |                    |                                       |
| 4.5             | Standard Lift Height                                 | h3 (mm)            | 3000                                 |                    |                                       |
| 4.6             | Max Working Height                                   | h4 (mm)            | 4840                                 |                    | 4885                                  |
| 4.7             | Cab Height                                           | h6 (mm)            | 3357                                 |                    | 3400                                  |
| 4.8             | Height of Drawbar Pin                                | h10 (mm)           | 650                                  |                    |                                       |
| 4.9             | Overall Length (With Forks)                          | l1(mm)             | 7350                                 |                    | 7430                                  |
| 4.10            | Overall Length (Without Forks)                       | l2 (mm)            | 5530                                 |                    | 5610                                  |
| 4.11            | Vehicle Width / Wheel Width                          | b1/b2 (mm)         | 2600/2600                            |                    |                                       |
| 4.12            | Fork Dimensions                                      | s/e/l (mm)         | 95×200×1820                          |                    |                                       |
| 4.13            | Carriage Width                                       | b3 (mm)            | 2560                                 |                    |                                       |
| 4.14            | Ground Clearance (Full Load, At Mast)                | m1 (mm)            | 250                                  |                    |                                       |
| 4.15            | Ground Clearance (Full Load, At Wheelbase Center)    | m2 (mm)            | 230                                  |                    |                                       |
| 4.16            | Aisle Width for Right-Angle Stacking                 | Ast (mm)           | 6230+l6                              |                    | 6310+l6                               |
| 4.17            | Outside Min Turning Radius                           | Wa (mm)            | 5100                                 |                    |                                       |
| Performance     |                                                      |                    |                                      |                    |                                       |
| 5.1             | Travel Speed (Full Load / No Load)                   | km/h               | 25/25                                |                    |                                       |
| 5.2             | Lifting Speed (Full Load / No Load)                  | mm/s               | 370/400                              |                    |                                       |
| 5.3             | Lowering Speed (Full Load / No Load)                 | mm/s               | 400/400                              |                    |                                       |
| 5.4             | Max Traction Force (Full Load / No Load)             | kN                 | 122/-                                |                    |                                       |
| 5.5             | Max Gradeability (Full Load / No Load)               | %                  | 25/25                                |                    |                                       |
| 5.6             | Service Brake                                        |                    | Multi-disc Wet Hydraulic Brake (WDB) |                    |                                       |
| 5.7             | Parking Brake                                        |                    | Hydraulic Release Spring Brake       |                    |                                       |
| Motors          |                                                      |                    |                                      |                    |                                       |
| 6.1             | Rated Power of Traction Motor                        | kW                 | 147                                  |                    |                                       |
| 6.2             | Rated Power of Lifting Motor                         | kW                 | 105                                  |                    |                                       |
| 6.3             | Battery Voltage / Nominal Capacity                   | (V)/(Ah)           | 608/346                              |                    |                                       |
| Others          |                                                      |                    |                                      |                    |                                       |
| 7.1             | Hydraulic System Operating Pressure                  | bar                | 225                                  |                    |                                       |
| 7.2             | Attachment Operating Pressure                        | bar                | 140                                  |                    |                                       |
| 7.3             | Sound Pressure Level at Operator Position            | dB(A)              | 73                                   |                    |                                       |



Manufacturer &amp; Technical Specifications (Table 3)

| Characteristics |                                                      |            |                                      |                    |                    |                    |
|-----------------|------------------------------------------------------|------------|--------------------------------------|--------------------|--------------------|--------------------|
| 1.1             | Manufacturer                                         |            | HELI                                 |                    |                    |                    |
| 1.2             | Model                                                |            | CPD140-A19LLIG3-12                   | CPD150-A19LLIG3-12 | CPD160-A19LLIG3-12 | CPD180-A19LLIG3-12 |
| 1.3             | Power Type                                           |            | LFP Battery                          |                    |                    |                    |
| 1.4             | Operation Type                                       |            | Sit-down Type                        |                    |                    |                    |
| 1.5             | Rated Load Capacity                                  | Q(kg)      | 14000                                | 15000              | 16000              | 18000              |
| 1.6             | Load Center Distance                                 | c (mm)     | 1200                                 |                    |                    |                    |
| 1.7             | Front Overhang                                       | x (mm)     | 935                                  |                    |                    | 1015               |
| 1.8             | Wheelbase                                            | y (mm)     | 3750                                 |                    |                    |                    |
| Weight          |                                                      |            |                                      |                    |                    |                    |
| 2.1             | Overall Weight                                       | kg         | 23000                                | 23800              | 24500              | 28000              |
| Tyres / Chassis |                                                      |            |                                      |                    |                    |                    |
| 3.1             | Tyre Type                                            |            | Pneumatic Tyres                      |                    |                    |                    |
| 3.2             | Front Tyre Size                                      |            | 12.00-20-20PR                        |                    |                    | 12.00-24-24PR      |
| 3.3             | Rear Tyre Size                                       |            | 12.00-20-24PR                        |                    |                    | 12.00-24-24PR      |
| 3.4             | Number of Front / Rear Wheels                        |            | 4/2                                  |                    |                    |                    |
| 3.5             | Front Track Width                                    | b10 (mm)   | 1888                                 |                    |                    |                    |
| 3.6             | Rear Track Width                                     | b11 (mm)   | 2120                                 |                    |                    |                    |
| Dimensions      |                                                      |            |                                      |                    |                    |                    |
| 4.1             | Mast Tilt Angle (Forward / Backward)                 | α/β (°)    | 6/12                                 |                    |                    |                    |
| 4.2             | Mast Overall Height (Forks on ground, mast vertical) | h1(mm)     | 3340                                 |                    |                    | 3935               |
| 4.3             | Overall Vehicle Height                               | h15 (mm)   | 3357                                 |                    |                    | 3935               |
| 4.4             | Free Lift Height                                     | h2 (mm)    | 100                                  |                    |                    |                    |
| 4.5             | Standard Lift Height                                 | h3 (mm)    | 3000                                 |                    |                    | 4000               |
| 4.6             | Max Working Height                                   | h4 (mm)    | 4840                                 |                    |                    | 5935               |
| 4.7             | Cab Height                                           | h6 (mm)    | 3357                                 |                    |                    | 3400               |
| 4.8             | Height of Drawbar Pin                                | h10 (mm)   | 650                                  |                    |                    |                    |
| 4.9             | Overall Length (With Forks)                          | l1(mm)     | 7975                                 |                    |                    | 8055               |
| 4.10            | Overall Length (Without Forks)                       | l2 (mm)    | 5535                                 |                    |                    | 5615               |
| 4.11            | Vehicle Width / Wheel Width                          | b1/b2 (mm) | 2600/2600                            |                    |                    |                    |
| 4.12            | Fork Dimensions                                      | s/e/l (mm) | 100×200×2440                         |                    |                    | 100×250×2440       |
| 4.13            | Carriage Width                                       | b3 (mm)    | 2560                                 |                    |                    |                    |
| 4.14            | Ground Clearance (Full Load, At Mast)                | m1 (mm)    | 250                                  |                    |                    |                    |
| 4.15            | Ground Clearance (Full Load, At Wheelbase Center)    | m2 (mm)    | 230                                  |                    |                    |                    |
| 4.16            | Aisle Width for Right-Angle Stacking                 | Ast (mm)   | 6235+l6                              |                    |                    | 6315+l6            |
| 4.17            | Outside Min Turning Radius                           | Wa (mm)    | 5100                                 |                    |                    |                    |
| Performance     |                                                      |            |                                      |                    |                    |                    |
| 5.1             | Travel Speed (Full Load / No Load)                   | km/h       | 25/25                                |                    |                    |                    |
| 5.2             | Lifting Speed (Full Load / No Load)                  | mm/s       | 370/400                              |                    |                    |                    |
| 5.3             | Lowering Speed (Full Load / No Load)                 | mm/s       | 400/400                              |                    |                    |                    |
| 5.4             | Max Traction Force (Full Load / No Load)             | kN         | 122/-                                |                    |                    | 97/-               |
| 5.5             | Max Gradeability (Full Load / No Load)               | %          | 25/25                                |                    |                    | 18/25              |
| 5.6             | Service Brake                                        |            | Multi-disc Wet Hydraulic Brake (WDB) |                    |                    |                    |
| 5.7             | Parking Brake                                        |            | Hydraulic Release Spring Brake       |                    |                    |                    |
| Motors          |                                                      |            |                                      |                    |                    |                    |
| 6.1             | Rated Power of Traction Motor                        | kW         | 147                                  |                    |                    |                    |
| 6.2             | Rated Power of Lifting Motor                         | kW         | 105                                  |                    |                    |                    |
| 6.3             | Battery Voltage / Nominal Capacity                   | (V)/(Ah)   | 608/346                              |                    |                    |                    |
| Others          |                                                      |            |                                      |                    |                    |                    |
| 7.1             | Hydraulic System Operating Pressure                  | bar        | 225                                  |                    |                    |                    |
| 7.2             | Attachment Operating Pressure                        | bar        | 140                                  |                    |                    |                    |
| 7.3             | Sound Pressure Level at Operator Position            | dB(A)      | 73                                   |                    |                    |                    |



NOTE: The load center is measured from the front face of the forks. The reference point of standard load center refers to the geometric center of a cube load block with side length of 1800/2400 mm. The rated load capacity will decrease if the mast is tilted forward, non-standard forks are used, or loads exceeding the standard width are carried. This load capacity curve enables quick lookup of available lifting capacity at different load center distances.

| Mast Parameters forCPD140/150/160-A19LLIG3-09/12 |                      |                                              |        |        |                                                    |                               |                          |
|--------------------------------------------------|----------------------|----------------------------------------------|--------|--------|----------------------------------------------------|-------------------------------|--------------------------|
| Mast Model                                       | Max Lift Height (mm) | Load Capacity (Load Center 900/1200 mm) (kg) |        |        | Overall Mast Height (Forks Lowered to Ground) (mm) | Max Extended Mast Height (mm) | Mast Tilt Angle α/β (° ) |
|                                                  |                      | CPD140                                       | CPD150 | CPD160 |                                                    |                               |                          |
| M300                                             | 3000                 | 14000                                        | 15000  | 16000  | 3340                                               | 4840                          | 6/12                     |
| M350                                             | 3500                 | 14000                                        | 15000  | 16000  | 3590                                               | 5340                          | 6/12                     |
| M400                                             | 4000                 | 14000                                        | 15000  | 16000  | 3840                                               | 5840                          | 6/12                     |
| M450                                             | 4500                 | 14000                                        | 15000  | 16000  | 4090                                               | 6340                          | 6/12                     |
| M500                                             | 5000                 | 14000                                        | 15000  | 16000  | 4340                                               | 6840                          | 6/6                      |
| M550                                             | 5500                 | 13000                                        | 14000  | 15000  | 4590                                               | 7340                          | 3/6                      |
| M600                                             | 6000                 | 12000                                        | 13000  | 14000  | 4840                                               | 7840                          | 3/6                      |
| M650                                             | 6500                 | 11000                                        | 12000  | 13000  | 5090                                               | 8340                          | 3/6                      |
| M700                                             | 7000                 | 10000                                        | 11000  | 12000  | 5340                                               | 8840                          | 3/6                      |

| Mast Parameters forCPD180-A19LLIG3-09 |                      |                                         |                                                    |                               |                          |
|---------------------------------------|----------------------|-----------------------------------------|----------------------------------------------------|-------------------------------|--------------------------|
| Mast Model                            | Max Lift Height (mm) | Load Capacity (Load Center 900 mm) (kg) | Overall Mast Height (Forks Lowered to Ground) (mm) | Max Extended Mast Height (mm) | Mast Tilt Angle α/β (° ) |
|                                       |                      | CPD180                                  |                                                    |                               |                          |
| M300                                  | 3000                 | 18000                                   | 3385                                               | 4885                          | 6/12                     |
| M350                                  | 3500                 | 18000                                   | 3685                                               | 5385                          | 6/12                     |
| M400                                  | 4000                 | 18000                                   | 3885                                               | 5885                          | 6/12                     |
| M450                                  | 4500                 | 18000                                   | 4135                                               | 6385                          | 6/12                     |
| M500                                  | 5000                 | 18000                                   | 4385                                               | 6885                          | 6/6                      |
| M550                                  | 5500                 | 17000                                   | 4635                                               | 7385                          | 3/6                      |
| M600                                  | 6000                 | 16000                                   | 4885                                               | 7885                          | 3/6                      |

| Mast Parameters forCPD180-A19LLIG3-12 |                      |                                          |                                                    |                               |                          |
|---------------------------------------|----------------------|------------------------------------------|----------------------------------------------------|-------------------------------|--------------------------|
| Mast Model                            | Max Lift Height (mm) | Load Capacity (Load Center 1200 mm) (kg) | Overall Mast Height (Forks Lowered to Ground) (mm) | Max Extended Mast Height (mm) | Mast Tilt Angle α/β (° ) |
|                                       |                      | CPD180                                   |                                                    |                               |                          |
| M400                                  | 4000                 | 18000                                    | 3935                                               | 5935                          | 6/12                     |
| M450                                  | 4500                 | 18000                                    | 4185                                               | 6435                          | 6/12                     |
| M500                                  | 5000                 | 18000                                    | 4485                                               | 6985                          | 6/6                      |
| M550                                  | 5500                 | 17000                                    | 4735                                               | 7485                          | 3/6                      |
| M600                                  | 6000                 | 16000                                    | 5035                                               | 8035                          | 3/6                      |
| M650                                  | 6500                 | 15000                                    | 5285                                               | 8535                          | 3/6                      |
| M600                                  | 6000                 | 16000                                    | 4885                                               | 7885                          | 3/6                      |

| Option List                       |                                              |                                                      |                            |                                                 |                                            |
|-----------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------|-------------------------------------------------|--------------------------------------------|
| Configuration Category            | Standard Equipment                           | Optional Equipment                                   | Configuration Category     | Standard Equipment                              | Optional Equipment                         |
| Safety Category                   | Card Swipe Start                             | Face Recognition                                     | Tyres                      | Pneumatic Tyres                                 | Solid Rubber Tyres                         |
|                                   | Full OPS System                              | Australia-spec OPS                                   |                            |                                                 | Front Solid + Rear Pneumatic Tyres         |
|                                   | Lift & Tilt Hydraulic Lock Valve             | /                                                    |                            |                                                 | Front Pneumatic + Rear Solid Tyres         |
|                                   | Battery Water-Cooled Heat Dissipation System | /                                                    | Mast / Attachment Category | Wide View Standard Mast                         | Full Free Lift Mast                        |
|                                   | Corner Speed Limiter                         | /                                                    |                            |                                                 | Fork Spreader Bar                          |
|                                   | Equipped with Fire Extinguisher              | Built-in Battery Fire Suppression System             |                            |                                                 | Fork Sleeves                               |
|                                   | Electric Horn                                | /                                                    |                            |                                                 | Lifting Jib                                |
|                                   | Reverse Buzzer                               | Voice Reverse Horn                                   |                            |                                                 | Round Log Clamp                            |
|                                   |                                              | Steering & Reverse Voice Horn                        |                            |                                                 | ...                                        |
|                                   | Visual Reverse Radar                         | 360° Camera System (with Radar)                      | Lighting Category          | LED Front & Rear Working Lights                 | Square Blue / Red Perimeter Warning Lights |
|                                   |                                              | 360° Camera System (without Radar)                   |                            | Front & Rear Combination Lamps                  | Strip Blue / Red Perimeter Warning Lights  |
|                                   |                                              | AI-Enabled 360° Camera System                        |                            | Turn Signal Lights                              | Magnetic LED Flashing Warning Light        |
| Emergency Cut-Off Switch (E-STOP) | /                                            | Magnetic LED Rotary Warning Light with Buzzer        |                            | Magnetic LED Flashing Warning Light with Buzzer |                                            |
| Comfort Category                  | Full Suspension Seat                         | /                                                    | Others                     | 608V/346Ah                                      | 618V/302Ah                                 |
|                                   | 1× USB Port                                  | /                                                    |                            |                                                 | 637V/400Ah                                 |
|                                   | Electric Proportional Control Lever          | Thumb Switch                                         |                            |                                                 | 618V/456Ah                                 |
|                                   | Radio (Bluetooth & USB Compatible)           | /                                                    |                            |                                                 | 656V/536Ah                                 |
|                                   | High-Voltage Heating & Cooling A/C           | Cooling-Only A/C                                     |                            | Drawbar Pin                                     | Weighing System                            |
|                                   |                                              | Heating & Cooling / Cooling-Only (AU & EU Exclusive) |                            | FICS HELI Basic Vehicle IoT Platform (China)    | Self-Lubrication System                    |
|                                   | Electric Tilting Cab                         | /                                                    |                            |                                                 |                                            |
|                                   | Tilt-Adjustable Steering Column              | /                                                    |                            |                                                 |                                            |

Optional Attachments



- **Side Shift & Fork Positioner**  
Combines fork spacing adjustment and side shift functions to boost operation efficiency



- **Fork arm extension**  
Extend fork length effectively, ideal for transporting oversize goods



- **Boom**  
Designed for coiled materials such as steel coils and wire rolls



- **Lifting Jib**  
Safe and efficient for hoisting cargo



- **Pipe & Bar Lifting Attachment**  
Suitable for lifting bundled steel rebars, steel pipes and similar materials