

**1-3.5t**  
**H3 Series Internal Combustion**  
**Counterbalanced Forklift Truck (Euro Stage V)**

**STAGE V**



**ANHUI HELI CO., LTD.**

ADD: NO.668 Fangxing Street, Economical Development Zone, Hefei, P.R.China  
TEL: (86 551) 63639068(America); 63639258(Europe); 63639358(Asia);  
63662105(Africa & Middle East); 63639530(Key Accounts Division);  
63662105(Wheel loader)  
FAX: (86 551) 63639966 WEBSITE: <http://www.heliforklift.net>  
Email: [heli@helichina.net](mailto:heli@helichina.net)

\* Our products are subject to improvements and changes without notice.



## HIGH QUALITY PRODUCT

H3 series is proudly launched adhering to the principle of repaying the society with high quality product and vision of being century-old enterprise. To HELI, the H3 series is the culmination and milestone in pursuit of mastery in the development and manufacture of forklift over the years.

Elaborately built H3 series will provide you high level driving experience with environment friendliness, outstanding comfort, safety and reliability, easy maintenance and excellent working efficiency.



### Engine Model:

KUBOTA V2403(Diesel)  
KUBOTA WG2503(GAS/LPG)



**The whole machine adopts the engine conforming to the Euro stage V and the American environmental protection standard;**

- The diesel engine adopts KUBOTA V2403 Euro 5 electronic high pressure common rail engine and DOC + DPF tail gas treatment technology.
- Single/Dual fuel using KUBOTA WG2503 electronic high pressure common rail engine, using three catalytic tail gas treatment technology.

Note: DOC — Diesel Oxidation Catalyst. DPF — Diesel Particulate Filters

## Safety and reliability

HELI keeps improving truck safety and reliability to ensure the safety of people, machine and goods.



### Improved cooling performance

- The hot air reflow isolating device, aluminum plate-fin type radiator, 60mm backward muffler and optimized thermal dissipation duct improve cooling ability and ensure engine work reliability to meet the requirements of working under harsh and high temperature environment better.
- The hydraulic system adopts high efficiency and low loss technology, comprehensively optimizes the hydraulic piping system and sealing form, and further reduces the pressure loss, hydraulic oil temperature and sealing reliability in the hydraulic system.

### Driver restraint warning system

- The vehicle is equipped with driver's safety belt restraint warning system, which makes driving safer.

### Key parts

- The optimal design of key parts like frame, mast and overhead guard improve the whole truck's safety and reliability.

### Fully-closed panel-mounted cab

- Fully-closed panel-mounted cab with high strength ensures the safety of people and machine fully.

### Casting axle

- The key rotation parts are protected from water and dust to extend their maintenance period. With the using of casting axle, the bearing load carrying ability is improved and the truck structure is simple and reliable. The service life is prolonged.



■ ratchet parking brake

■ automobile type oil adding cap structure ■ double-lip elastic sealing gasket

## Enhanced Operator Presence System with comprehensive security upgrade

### ■ Walking on site induction safety system

When the machine is running, the operator will suddenly leave the correct operating position without releasing the accelerator pedal, and the power will be cut off to protect the safety of running.

### ■ LHS ( Load Handling System ) on site induction safety system and reset control system

When the operator leaves or returns to the correct operating position without loosening the LHS control device, the operation brought by the LHS operation will be suspended and will not occur automatically, so as to protect the LHS operation safety.

### ■ LHS ( Load Handling System ) static control system

When the LHS control device is operated and the engine is started, the operation brought by LHS control will not happen automatically after the engine is started. Only when the LHS control device is reset and then operated can the operation continue.

### ■ Non-parking security alarm system

When the forklift is not powered off and the driver is not using the parking brake, an audible warning is used to alert the driver.



## Easy maintenance

Easy maintenance which is good for maintaining the optimal condition of key parts and completed truck and ensures safety and work efficiency is the necessary character of a good product.

### Large engine hood opening angle

- Engine hood lock integrated on the hood is convenient for opening and close during maintenance.
- The gas spring has optimized arrangement, improved load carrying ability, opening angle, prolonged gas spring service life and improved opening comfort. 80° engine hood opening angle offers wide operation space for check and maintenance.



■ compositional radiator heat flow baffle



■ brake liquid reservoir



■ mast pipeline

### DPF ( Diesel Particulate Filters ) automatic regeneration

- Euro 5 diesel-powered model is equipped with DPF automatic regeneration function, and the instrument is equipped with DPF blocking quantity display function (equipped with diesel vehicle), which is convenient for maintenance; When running the automatic regeneration program, the engine provides 100% power output. The DPF regeneration program can be interrupted at any time. DPF cleaning interval increased from 3000 hours to 6000 hours.

### Low after-sales maintenance cost

- Equipped with Euro V diesel, liquefied gas, dual fuel power configuration to meet the needs of different users.
- Based on the same platform of a variety of fuel (diesel / liquefied gas) configuration scheme, the main parts of the general, low after-sales maintenance cost is low.



## Excellent working efficiency

With high efficiency, the truck perfectly guarantees the material handling work at port, dock, and railway station. It can meet the requirements for various kinds of complicated work conditions.

### Quick responding steering wheel

- With 100% pivot steering and returning, the truck has good maneuverability in narrow space.
- The truck has small turning radius, easy steering, good gradeability and flexible maneuverability.



### Needs of low-temperature areas

- The prototype was tested at -25 °C in the cold storage laboratory to meet the demand for use at this temperature.

### Diesel products with large capacity batteries

- Euro V diesel-powered models use large capacity batteries, vehicle start, electricity is more secure.



## Environment-friendliness

Clean and environment-friendly power meeting international emission standard is assembled on the H3 series to reduce harmful emissions and be environment-friendly. Meanwhile, H3 series effectively reduce truck vibration and noise.

### Suspension cab

- Cushion connection between the frame and cab and wholly suspension cab absorb whole truck's vibration effectively. Fully-closed panel-mounted cab isolates the noise.



■ suspension cab

■ damping support of the suspension cab

■ panel-mounted cab

### Mast lowering buffering device

- It reduces shock and vibration to the mast and avoids crash noise caused by goods falling to the ground.



■ lowering buffering device



## Outstanding comfort

Ergonomic designs, optimized operating device structure and layout improve driving experience and ensure long hours of efficient operation.

### Enlarged operating space

- Tilting cylinder located below the floor board, 30mm widened low anti-skidded step and 45% enlarged operation space at foot provide comfort entry, exit and operation.
- 80mm heightened overhead guard and large arc shape of the overhead guard's front leg enlarge operating space and reduce operating fatigue.



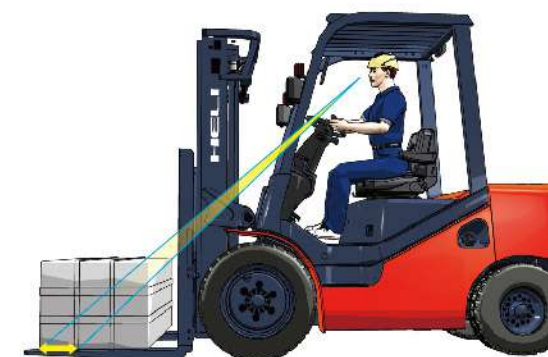
■ hidden tilting cylinder

■ comfortable space

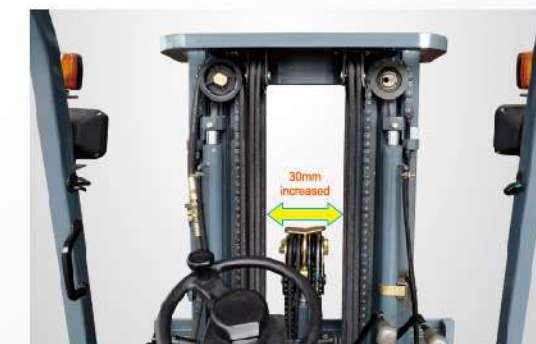
■ comfortable space

### Outstanding visibility

- With three-stage free lift mast, front view width is increased by 30mm; with 15mm lowered instrument panel, the visibility of fork and goods is increased by 20mm. CAE optimized counter weight structure improve rear view.



■ visibility at the fork tip and goods 20mm increased



■ front view 30mm enlarged

### LED combined instrument

- With the clear displaying and right installment of the instrument, the operator can know the truck information in time.

### Rear assist handle (optional)

- The assist grip with a horn enhances comfort by offering easy horn operation while travelling in reverse.



| Manufacturer and technical parameters    |                                                                 |                                |           |                          |                          |                          |        |
|------------------------------------------|-----------------------------------------------------------------|--------------------------------|-----------|--------------------------|--------------------------|--------------------------|--------|
| Character                                |                                                                 |                                |           |                          |                          |                          |        |
| 1.01                                     | Manufacturer                                                    |                                |           | HELI                     |                          |                          |        |
| 1.02                                     | Model                                                           |                                |           | CPCD10/CP(Q)D10          | CPCD15/CP(Q)D15          | CPCD18/CP(Q)D18          |        |
| 1.03                                     | Rated capacity                                                  |                                | kg        | 1000                     | 1500                     | 1750                     |        |
| 1.04                                     | Load center                                                     |                                | mm        | 500                      |                          |                          |        |
| 1.05                                     | Operation mode                                                  |                                |           | Seat-type                |                          |                          |        |
| Size                                     |                                                                 |                                |           |                          |                          |                          |        |
| 2.01                                     | Max. lifting height                                             | H                              | mm        | 3000                     |                          |                          |        |
| 2.02                                     | Mast overall height( Fork to the ground and mast be vertical)   | H1                             | mm        | 1995                     | 1995                     | 1995                     |        |
| 2.03                                     | Max. fork lifting height( With backrest )                       | H2                             | mm        | 4014                     |                          |                          |        |
| 2.04                                     | Free lift height                                                | H3                             | mm        | 152                      | 155                      | 155                      |        |
| 2.05                                     | Overall height( Overhead guard )                                | H4                             | mm        | 2140                     |                          |                          |        |
| 2.06                                     | Min. groung clearance ( At the mast )                           | H5                             | mm        | 110                      |                          |                          |        |
| 2.07                                     | Distance from the surface of the seat to the overhead guard     | H6                             | mm        | 1018                     |                          |                          |        |
| 2.08                                     | Overall length ( With fork /Without fork )                      | (L/L')                         | mm        | 3197/2277                | 3201/2281                | 3219/2299                |        |
| 2.09                                     | Wheel base                                                      | L1                             | mm        | 1450                     |                          |                          |        |
| 2.10                                     | Overall width                                                   | W1                             | mm        | 1070                     |                          |                          |        |
| 2.11                                     | Tread ( Front tread / Rear tread )                              | (W3/W2)                        | mm        | 902/928                  | 902/928                  | 932/928                  |        |
| 2.12                                     | Fork adjustable range ( The external of the fork )(Max. / Min.) | W5                             | mm        | 950/200                  |                          |                          |        |
| 2.13                                     | Min. turning radius( Exterior )                                 | r                              | mm        | 1875                     | 1910                     | 1930                     |        |
| 2.14                                     | Min. right angle aisle width                                    | Ra                             | mm        | 2011                     | 2016                     | 2035                     |        |
| 2.15                                     | Min. right angle stacking aisle width                           | Ast                            | mm        | 3576                     | 3584                     | 3603                     |        |
| 2.16                                     | Mast tilting angle                                              | $\alpha / \beta$               | deg       | 6/10                     |                          |                          |        |
| 2.17                                     | Fork size                                                       | L4×W×T                         | mm        | 770×100×32               | 920×100×35               | 920×100×35               |        |
| Weight                                   |                                                                 |                                |           |                          |                          |                          |        |
| 3.01                                     | Total weight                                                    |                                | kg        | 2540                     | 2720                     | 2850                     |        |
| Wheel and tyre                           |                                                                 |                                |           |                          |                          |                          |        |
| 4.01                                     | Tyre type(Front/Rear)                                           |                                |           |                          | Pneumatic tyre           |                          |        |
| 4.02                                     | Tyre size(Front/Rear)                                           |                                |           | 6.50-10-10PR/5.00-8-10PR | 6.50-10-10PR/5.00-8-10PR | 6.50-10-10PR/5.00-8-10PR |        |
| Performance                              |                                                                 |                                |           |                          |                          |                          |        |
| Model                                    |                                                                 | CP(Q)YD10                      | CP(Q)YD15 | CP(Q)YD18                | CPCD10                   | CPCD15                   | CPCD18 |
| Configuration number                     |                                                                 | KU1H                           | KU1H      | KU1H                     | KU18H                    | KU18H                    | KU18H  |
| Max. drawbar pull ( Loaded/Unloaded )    | kN                                                              | 17/7                           | 19/7      | 19/7                     | 17/7                     | 18/7                     | 18/7   |
| Max. gradeability ( Loaded/Unloaded )    | %                                                               | 40/24                          | 40/20     | 40/18                    | 40/24                    | 40/20                    | 40/18  |
| Max. traveling speed ( Loaded/Unloaded ) | km/h                                                            | 17/18                          |           |                          |                          |                          |        |
| Lifting speed ( Loaded/Unloaded )        | mm/s                                                            | 610/650                        |           |                          | 550/605                  |                          |        |
| Lowing speed ( Loaded/Unloaded )         | mm/s                                                            | 450/600                        |           |                          |                          |                          |        |
| Drive and transmission control device    |                                                                 |                                |           |                          |                          |                          |        |
| Engine model                             |                                                                 | KUBOTA WG2503                  |           |                          | KUBOTA V2403             |                          |        |
| Engine rated power                       | kW/rpm                                                          | GAS: 42.8/2600, LPG: 43.5/2600 |           |                          | 33.6/2400                |                          |        |
| Engine rated torque                      | Nm/rpm                                                          | GAS: 163/1800, LPG: 173 7/1400 |           |                          | 157.4/1500               |                          |        |
| Engine cylinder number-borexstroke       |                                                                 | 4-88×102.4                     |           |                          | 4-87×102.4               |                          |        |
| Engine displacement                      | L                                                               | 2.491                          |           |                          | 2.434                    |                          |        |
| Engine type                              |                                                                 | GAS/LPG                        |           |                          | Diesel                   |                          |        |
| Emission                                 |                                                                 | Euro Stage V                   |           |                          | Euro Stage V             |                          |        |
| Battery (Voltage/Capacity )              | V/Ah                                                            | 12/60                          |           |                          | 12/95                    |                          |        |

| WIDE VIEW MAST |                           |                                       |                       |                       |                                                     |                       |                       |                       |                                            |
|----------------|---------------------------|---------------------------------------|-----------------------|-----------------------|-----------------------------------------------------|-----------------------|-----------------------|-----------------------|--------------------------------------------|
| Mast model     | Max. lifting height<br>mm | Load capacity (load center 500mm)(Kg) |                       |                       | Mast overall height<br>(fork to the ground)<br>(mm) | Service weight (kg)   |                       |                       | Mast tilting angle<br>(°) $\alpha / \beta$ |
|                |                           | CPCD10<br>CP(Q)(Y)D10                 | CPCD15<br>CP(Q)(Y)D15 | CPCD18<br>CP(Q)(Y)D18 |                                                     | CPCD10<br>CP(Q)(Y)D10 | CPCD15<br>CP(Q)(Y)D15 | CPCD18<br>CP(Q)(Y)D18 |                                            |
| M200           | 2000                      | 1000                                  | 1500                  | 1750                  | 1495                                                | 2470                  | 2650                  | 2780                  | 6/10                                       |
| M250           | 2500                      | 1000                                  | 1500                  | 1750                  | 1745                                                | 2510                  | 2680                  | 2810                  | 6/10                                       |
| M300           | 3000                      | 1000                                  | 1500                  | 1750                  | 1995                                                | 2540                  | 2720                  | 2850                  | 6/10                                       |
| M330           | 3300                      | 1000                                  | 1500                  | 1750                  | 2145                                                | 2560                  | 2740                  | 2870                  | 6/10                                       |
| M350           | 3500                      | 1000                                  | 1500                  | 1750                  | 2245                                                | 2580                  | 2750                  | 2880                  | 6/10                                       |
| M370           | 3700                      | 1000                                  | 1500                  | 1750                  | 2345                                                | 2590                  | 2770                  | 2900                  | 6/6                                        |
| M400           | 4000                      | 1000                                  | 1500                  | *1700                 | 2545                                                | 2650                  | 2830                  | 2960                  | *6/10                                      |
| M425           | 4250                      | 950                                   | *1400                 | *1650                 | 2670                                                | 2660                  | 2840                  | 2970                  | *6/6                                       |
| M450           | 4500                      | 950                                   | *1400                 | *1700                 | 2795                                                | 2680                  | 2860                  | 2990                  | *6/6                                       |
| M500           | 5000                      | *930                                  | *1000                 | *1100                 | 3045                                                | 2720                  | 2900                  | 3030                  | *6/6                                       |
| M550           | 5500                      | *950                                  | *1350                 | *1600                 | 3345                                                | 2790                  | 2970                  | 3100                  | *3/6                                       |
| M600           | 6000                      | *850                                  | *1050                 | *1400                 | 3595                                                | 2820                  | 3000                  | 3130                  | *3/6                                       |

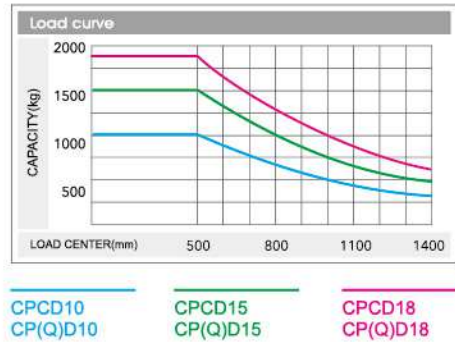
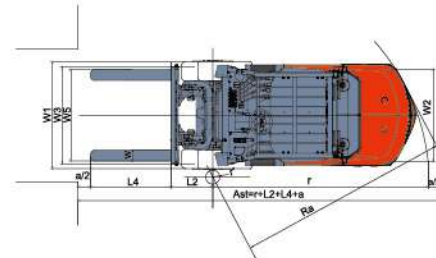
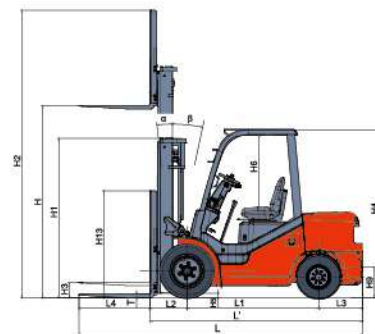
Note: (1) Rated capacity with (\*); shows capacity with front dual tires. (2) Max. lifting height without lift-bracket: -395mm.

| WIDE VIEW FULL FREE 2-STAGE MAST |                           |                                       |                       |                       |                                                     |                                             |                       |                       |                       |                                            |
|----------------------------------|---------------------------|---------------------------------------|-----------------------|-----------------------|-----------------------------------------------------|---------------------------------------------|-----------------------|-----------------------|-----------------------|--------------------------------------------|
| Mast model                       | Max. lifting height<br>mm | Load capacity (load center 500mm)(Kg) |                       |                       | Mast overall height<br>(fork to the ground)<br>(mm) | Free lift height<br>(with backrest)<br>(mm) | Service weight (kg)   |                       |                       | Mast tilting angle<br>(°) $\alpha / \beta$ |
|                                  |                           | CPCD10<br>CP(Q)(Y)D10                 | CPCD15<br>CP(Q)(Y)D15 | CPCD18<br>CP(Q)(Y)D18 |                                                     |                                             | CPCD10<br>CP(Q)(Y)D10 | CPCD15<br>CP(Q)(Y)D15 | CPCD18<br>CP(Q)(Y)D18 |                                            |
| ZM200                            | 2000                      | 1000                                  | 1500                  | 1750                  | 1495                                                | 480                                         | 2500                  | 2680                  | 2810                  | 6/10                                       |
| ZM250                            | 2500                      | 1000                                  | 1500                  | 1750                  | 1745                                                | 730                                         | 2530                  | 2710                  | 2840                  | 6/10                                       |
| ZM300                            | 3000                      | 1000                                  | 1500                  | 1750                  | 1995                                                | 980                                         | 2570                  | 2750                  | 2880                  | 6/10                                       |
| ZM330                            | 3300                      | 1000                                  | 1500                  | 1750                  | 2145                                                | 1130                                        | 2590                  | 2770                  | 2900                  | 6/10                                       |
| ZM350                            | 3500                      | 1000                                  | 1500                  | 1750                  | 2245                                                | 1230                                        | 2600                  | 2780                  | 2910                  | 6/10                                       |
| ZM370                            | 3700                      | 1000                                  | 1500                  | 1750                  | 2345                                                | 1330                                        | 2620                  | 2800                  | 2930                  | 6/6                                        |
| ZM400                            | 4000                      | 1000                                  | 1500                  | *1700                 | 2545                                                | 1530                                        | 2670                  | 2850                  | 2980                  | *6/10                                      |
| ZM425                            | 4250                      | 950                                   | *1500                 | *1750                 | 2670                                                | 1655                                        | 2690                  | 2870                  | 3000                  | *6/6                                       |
| ZM450                            | 4500                      | 950                                   | *1400                 | *1700                 | 2795                                                | 1780                                        | 2710                  | 2890                  | 3020                  | *6/6                                       |
| ZM500                            | 5000                      | *930                                  | *1000                 | *1100                 | 3045                                                | 2030                                        | 2740                  | 2920                  | 3050                  | *6/6                                       |
| ZM550                            | 5500                      | *900                                  | *1150                 | *1500                 | 3345                                                | 2330                                        | 2820                  | 2990                  | 3120                  | *3/6                                       |
| ZM600                            | 6000                      | *850                                  | *1050                 | *1400                 | 3595                                                | 2580                                        | 2850                  | 3030                  | 3160                  | *3/6                                       |

Note: (1) Max. Lifting height without lift-bracket: -379mm (2) Max. Lifting height without lift-bracket: +379mm (3) Rated capacity with(\*); shows capacity with front dual tires

| WIDE VIEW FULL FREE 3-STAGE MAST |                           |                                       |                       |                       |                                                     |                                             |                       |                       |                       |                                            |
|----------------------------------|---------------------------|---------------------------------------|-----------------------|-----------------------|-----------------------------------------------------|---------------------------------------------|-----------------------|-----------------------|-----------------------|--------------------------------------------|
| Mast model                       | Max. lifting height<br>mm | Load capacity (load center 500mm)(Kg) |                       |                       | Mast overall height<br>(fork to the ground)<br>(mm) | Free lift height<br>(with backrest)<br>(mm) | Service weight (kg)   |                       |                       | Mast tilting angle<br>(°) $\alpha / \beta$ |
|                                  |                           | CPCD10<br>CP(Q)(Y)D10                 | CPCD15<br>CP(Q)(Y)D15 | CPCD18<br>CP(Q)(Y)D18 |                                                     |                                             | CPCD10<br>CP(Q)(Y)D10 | CPCD15<br>CP(Q)(Y)D15 | CPCD18<br>CP(Q)(Y)D18 |                                            |
| ZSM360                           | 3600                      | 1000                                  | 1450                  | 1750                  | 1790                                                | 775                                         | 2680                  | 2680                  | 2990                  | 6/6                                        |
| ZSM400                           | 4000                      | 1000                                  | 1400                  | 1600                  | 1925                                                | 910                                         | 2710                  | 2710                  | 3020                  | 6/6                                        |
| ZSM430                           | 4350                      | *900                                  | *1350                 | *1550                 | 2040                                                | 1025                                        | 2730                  | 2730                  | 3040                  | 6/6                                        |
| ZSM450                           | 4500                      | *900                                  | *1300                 | *1500                 | 2090                                                | 1075                                        | 2740                  | 2740                  | 3050                  | 6/6                                        |
| ZSM470                           | 4700                      | *900                                  | *1300                 | *1450                 | 2160                                                | 1145                                        | 2750                  | 2750                  | 3060                  | 6/6                                        |
| ZSM480                           | 4800                      | *900                                  | *1300                 | *1400                 | 2190                                                | 1175                                        | 2760                  | 2760                  | 3070                  | 6/6                                        |
| ZSM500                           | 5000                      | *900                                  | *1300                 | *1500                 | 2290                                                | 1275                                        | 2780                  | 2780                  | 3090                  | 6/6                                        |
| ZSM540                           | 5400                      | *900                                  | *1250                 | *1500                 | 2415                                                | 1400                                        | 2810                  | 2810                  | 3120                  | 3/6                                        |
| ZSM600                           | 6000                      | *850                                  | *1100                 | *1400                 | 2640                                                | 1625                                        | 2880                  | 2880                  | 3190                  | 3/6                                        |

Note: (1) Max. Lifting height without lift-bracket: - 484mm (2) Max. Lifting height without lift-bracket: + 484mm (3) Rated capacity with(\*); shows capacity with front dual tires





| Manufacturer and technical parameters    |                                                                |                              |           |                               |                              |                               |                               |                               |                               |
|------------------------------------------|----------------------------------------------------------------|------------------------------|-----------|-------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Character                                |                                                                |                              |           |                               |                              |                               |                               |                               |                               |
| 1.01                                     | Manufacturer                                                   |                              |           | HELI                          |                              |                               |                               |                               |                               |
| 1.02                                     | Model                                                          |                              |           | CPCD20 / CP(Q)Y20 / CP(Q)YD20 |                              | CPCD25 / CP(Q)Y25 / CP(Q)YD25 |                               | CPCD30 / CP(Q)Y30 / CP(Q)YD30 |                               |
| 1.03                                     | Rated capacity                                                 |                              | kg        | 2000                          |                              | 2500                          |                               | 3000                          |                               |
| 1.04                                     | Load center                                                    |                              | mm        | 500                           |                              |                               |                               |                               |                               |
| 1.05                                     | Operation mode                                                 |                              |           | Seat-type                     |                              |                               |                               |                               |                               |
| Size                                     |                                                                |                              |           |                               |                              |                               |                               |                               |                               |
| 2.01                                     | Max. lifting height                                            | H                            | mm        | 3000                          | 3000                         | 3000                          | 3000                          | 3000                          | 3000                          |
| 2.02                                     | Mast overall height( Fork to the ground and mast be vertical ) | H1                           | mm        | 2000                          | 2000                         | 2065                          | 2065                          | 2180                          | 2180                          |
| 2.03                                     | Max. fork lifting height( With backrest )                      | H2                           | mm        | 4030                          | 4030                         | 4245                          | 4245                          | 4235                          | 4235                          |
| 2.04                                     | Free lift height                                               | H3                           | mm        | 165                           | 165                          | 160                           | 160                           | 170                           | 170                           |
| 2.05                                     | Overall height( Overhead guard )                               | H4                           | mm        | 2150                          | 2150                         | 2170                          | 2170                          | 2170                          | 2170                          |
| 2.06                                     | Min. groung clearance( At the mast )                           | H5                           | mm        | 115                           | 115                          | 135                           | 135                           | 135                           | 135                           |
| 2.07                                     | Distance from the surface of the seat to the overhead guard    | H6                           | mm        | 1030                          | 1030                         | 1030                          | 1030                          | 1030                          | 1030                          |
| 2.08                                     | Overall length( With fork / Without fork )                     | (L/L')                       | mm        | 3500/2580                     | 3708/2638                    | 3818/2748                     | 3818/2748                     | 3836/2766                     | 3836/2766                     |
| 2.09                                     | Wheel base                                                     | L1                           | mm        | 1650                          | 1650                         | 1700                          | 1700                          | 1700                          | 1700                          |
| 2.10                                     | Overall width                                                  | W1                           | mm        | 1150                          | 1150                         | 1225                          | 1225                          | 1225                          | 1225                          |
| 2.11                                     | Tread ( Front tread / Rear tread )                             | (W3/W2)                      | mm        | 970/970                       | 970/970                      | 1000/970                      | 1000/970                      | 1000/970                      | 1000/970                      |
| 2.12                                     | Fork adjustable range( The external of the fork )(Max. / Min.) | W5                           | mm        | 1030/244                      | 1030/244                     | 1060/250                      | 1060/250                      | 1060/250                      | 1060/250                      |
| 2.13                                     | Min. turning radius( Exterior )                                | r                            | mm        | 2170                          | 2240                         | 2400                          | 2400                          | 2420                          | 2420                          |
| 2.14                                     | Min. right angle stacking aisle width                          | Ra                           | mm        | 2200                          | 2280                         | 2380                          | 2380                          | 2400                          | 2400                          |
| 2.15                                     | Mast tilting angle                                             | α / β                        | deg       | 6/12                          | 6/12                         | 6/12                          | 6/12                          | 6/12                          | 6/12                          |
| 2.16                                     | Fork size                                                      | L4×W×T                       | mm        | 920×122×40                    | 1070×122×40                  | 1070×125×45                   | 1070×125×45                   | 1070×125×50                   | 1070×125×50                   |
| Weight                                   |                                                                |                              |           |                               |                              |                               |                               |                               |                               |
| 3.01                                     | Total weight                                                   |                              | kg        | 3370                          | 3740                         | 4340                          | 4340                          | 4700                          | 4700                          |
| Wheel and tyre                           |                                                                |                              |           |                               |                              |                               |                               |                               |                               |
| 4.01                                     | Tyre type(Front/Rear)                                          |                              |           | Pneumatic tyre                |                              |                               |                               |                               |                               |
| 4.02                                     | Tyre size(Front/Rear)                                          |                              |           | 7.00-12-12PR/<br>6.00-9-10PR  | 7.00-12-12PR/<br>6.00-9-10PR | 28×9-15-14PR/<br>6.50-10-10PR | 28×9-15-14PR/<br>6.50-10-10PR | 28×9-15-14PR/<br>6.50-10-10PR | 28×9-15-14PR/<br>6.50-10-10PR |
| Performance                              |                                                                |                              |           |                               |                              |                               |                               |                               |                               |
| Model                                    |                                                                | CP(Q)YD20                    | CP(Q)YD25 | CP(Q)YD30                     | CP(Q)YD35                    | CPCD20                        | CPCD25                        | CPCD30                        | CPCD35                        |
| Configuration number                     |                                                                | KU1H                         | KU1H      | KU1H                          | KU1H                         | KU20H                         | KU20H                         | KU20H                         | KU20H                         |
| Max. drawbar pull ( Loaded/Unloaded )    | kN                                                             | 24/13                        | 24/14     | 23/15                         | 22/16                        | 18/13                         | 19/13                         | 20/14                         | 21/15                         |
| Max. gradeability ( Loaded/Unloaded )    | %                                                              | 30/26                        | 29/22     | 28/22                         | 18/21                        | 32/25                         | 29/23                         | 27/21                         | 27/22                         |
| Max. traveling speed ( Loaded/Unloaded ) | km/h                                                           | 17/18                        | 17/18     | 18/19                         | 18/19                        | 17/17                         | 17/17                         | 18/19                         | 18/19                         |
| Lifting speed ( Loaded/Unloaded )        | mm/s                                                           | 535/600                      | 535/600   | 455/540                       | 360/400                      | 570/585                       | 570/585                       | 480/500                       | 430/460                       |
| Lowing speed ( Loaded/Unloaded )         | mm/s                                                           | 450/500                      | 450/500   | 450/500                       | 350/400                      | 450/500                       | 450/500                       | 450/550                       | 450/550                       |
| Drive and transmission control device    |                                                                |                              |           |                               |                              |                               |                               |                               |                               |
| Engine model                             |                                                                | Kubota WG2503                |           |                               |                              | Kubota V2403-CR-TE5B          |                               |                               |                               |
| Engine rated power                       | kW/rpm                                                         | GAS:42.8/2600, LPG:43.5/2600 |           |                               |                              | 42.6/2400                     |                               |                               |                               |
| Engine rated torque                      | Nm/rpm                                                         | GAS:163/1800, LPG:173.7/1400 |           |                               |                              | 195.6/1500                    |                               |                               |                               |
| Engine cylinder number - borexstroke     |                                                                | 4-88×102.4                   |           |                               |                              | 4-87×102.4                    |                               |                               |                               |
| Engine displacement                      | L                                                              | 2.491                        |           |                               |                              | 2.434                         |                               |                               |                               |
| Engine type                              |                                                                | GAS/LPG                      |           |                               |                              | Diesel                        |                               |                               |                               |
| Emission                                 |                                                                | Euro StageV                  |           |                               |                              | Euro StageV                   |                               |                               |                               |
| Battery ( Voltage/Capacity )             | V/Ah                                                           | 12/60                        |           |                               |                              | 12/95                         |                               |                               |                               |

| WIDE VIEW MAST |                        |                                       |                             |                             |                             |                                                 |      |      |                             |                             |                             |                             |                                         |      |
|----------------|------------------------|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------------------------|------|------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------|------|
| Mast model     | Max. lifting height mm | Load capacity (load center 500mm)(Kg) |                             |                             |                             | Mast overall height ( fork to the ground ) (mm) |      |      | Service weight ( kg )       |                             |                             |                             | Mast tilting angle (°) $\alpha / \beta$ |      |
|                |                        | CP(Q)Y20/ CP(Q)YD20/ CPCD20           | CP(Q)Y25/ CP(Q)YD25/ CPCD25 | CP(Q)Y30/ CP(Q)YD30/ CPCD30 | CP(Q)Y35/ CP(Q)YD35/ CPCD35 | 2-2.5t                                          | 3t   | 3.5t | CP(Q)Y20/ CP(Q)YD20/ CPCD20 | CP(Q)Y25/ CP(Q)YD25/ CPCD25 | CP(Q)Y30/ CP(Q)YD30/ CPCD30 | CP(Q)Y35/ CP(Q)YD35/ CPCD35 |                                         |      |
| M200           | 2000                   | 2000                                  | 2500                        | 3000                        | 3500                        | 1459                                            | 1570 | 1680 | 3280                        | 3650                        | 4250                        | 4610                        | 6/12                                    | 6/12 |
| M250           | 2500                   | 2000                                  | 2500                        | 3000                        | 3500                        | 1745                                            | 1820 | 1930 | 3330                        | 3700                        | 4300                        | 4650                        | 6/12                                    | 6/12 |
| M300           | 3000                   | 2000                                  | 2500                        | 3000                        | 3500                        | 1995                                            | 2080 | 2180 | 3370                        | 3740                        | 4340                        | 4700                        | 6/12                                    | 6/12 |
| M330           | 3300                   | 2000                                  | 2500                        | 3000                        | 3500                        | 2145                                            | 2220 | 2330 | 3400                        | 3770                        | 4360                        | 4730                        | 6/12                                    | 6/12 |
| M350           | 3500                   | 2000                                  | 2500                        | 3000                        | 3500                        | 2245                                            | 2320 | 2430 | 3420                        | 3790                        | 4380                        | 4750                        | 6/12                                    | 6/12 |
| M370           | 3700                   | 2000                                  | 2500                        | 3000                        | 3500                        | 2345                                            | 2420 | 2530 | 3430                        | 3800                        | 4400                        | 4760                        | *6/6                                    | *6/6 |
| M400           | 4000                   | 2000                                  | 2500                        | 3000                        | *3400                       | 2545                                            | 2620 | 2730 | 3510                        | 3880                        | 4490                        | 4840                        | *6/6                                    | *6/6 |
| M425           | 4250                   | 2000                                  | *2350                       | 3000                        | *3350                       | 2670                                            | 2745 | 2855 | 3530                        | 3900                        | 4510                        | 4870                        | *6/6                                    | *6/6 |
| M450           | 4500                   | *1950                                 | *2450                       | *2950                       | *3350                       | 2795                                            | 2870 | 2980 | 3560                        | 3930                        | 4540                        | 4900                        | *6/6                                    | *6/6 |
| M500           | 5000                   | *1700                                 | *2300                       | *2900                       | *3200                       | 3045                                            | 3120 | 3230 | 3600                        | 3970                        | 4580                        | 4950                        | *6/6                                    | *6/6 |
| M550           | 5500                   | *1300                                 | *2100                       | *2500                       | *2900                       | 3345                                            | 3420 | 3530 | 3700                        | 4070                        | 4690                        | 4990                        | *3/6                                    | *3/6 |
| M600           | 6000                   | *900                                  | *1800                       | *2200                       | *2300                       | 3595                                            | 3670 | 3780 | 3740                        | 4110                        | 4730                        | 5040                        | *3/6                                    | *3/6 |

Note: (1) \* Stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 2-3.5t truck is double tyre, the service weight of the truck is the weight in the table plus 110kg.

| WIDE VIEW FULL FREE 2-STAGE MAST |                        |                                       |                             |                             |                             |                                                |      |      |                                         |      |      |                             |                             |                             |                             |                                         |      |
|----------------------------------|------------------------|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------------------------|------|------|-----------------------------------------|------|------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------|------|
| Mast model                       | Max. lifting height mm | Load capacity (load center 500mm)(Kg) |                             |                             |                             | Mast overall height (fork to the ground ) (mm) |      |      | Free lift height ( with backrest ) (mm) |      |      | Service weight ( kg )       |                             |                             |                             | Mast tilting angle (°) $\alpha / \beta$ |      |
|                                  |                        | CP(Q)Y20/ CP(Q)YD20/ CPCD20           | CP(Q)Y25/ CP(Q)YD25/ CPCD25 | CP(Q)Y30/ CP(Q)YD30/ CPCD30 | CP(Q)Y35/ CP(Q)YD35/ CPCD35 | 2-2.5t                                         | 3t   | 3.5t | 2-2.5t                                  | 3t   | 3.5t | CP(Q)Y20/ CP(Q)YD20/ CPCD20 | CP(Q)Y25/ CP(Q)YD25/ CPCD25 | CP(Q)Y30/ CP(Q)YD30/ CPCD30 | CP(Q)Y35/ CP(Q)YD35/ CPCD35 |                                         |      |
| ZM200                            | 2000                   | 2000                                  | 2500                        | 3000                        | 3500                        | 1459                                           | 1570 | 1680 | 495                                     | 340  | 460  | 3300                        | 3670                        | 4270                        | 4660                        | 6/12                                    | 6/12 |
| ZM250                            | 2500                   | 2000                                  | 2500                        | 3000                        | 3500                        | 1745                                           | 1820 | 1930 | 745                                     | 590  | 710  | 3360                        | 3730                        | 4310                        | 4700                        | 6/12                                    | 6/12 |
| ZM300                            | 3000                   | 2000                                  | 2500                        | 3000                        | 3500                        | 1995                                           | 2070 | 2180 | 995                                     | 840  | 960  | 3430                        | 3800                        | 4360                        | 4750                        | 6/12                                    | 6/12 |
| ZM330                            | 3300                   | 2000                                  | 2500                        | 3000                        | 3500                        | 2145                                           | 2220 | 2330 | 1145                                    | 990  | 1110 | 3470                        | 3840                        | 4390                        | 4780                        | 6/12                                    | 6/12 |
| ZM350                            | 3500                   | 2000                                  | 2500                        | 3000                        | 3500                        | 2245                                           | 2320 | 2430 | 1245                                    | 1090 | 1210 | 3500                        | 3870                        | 4410                        | 4800                        | 6/12                                    | 6/12 |
| ZM370                            | 3700                   | 2000                                  | 2500                        | 3000                        | 3500                        | 2345                                           | 2420 | 2530 | 1345                                    | 1190 | 1310 | 3520                        | 3890                        | 4430                        | 4810                        | *6/6                                    | *6/6 |
| ZM400                            | 4000                   | 2000                                  | 2500                        | 3000                        | *3400                       | 2545                                           | 2620 | 2730 | 1545                                    | 1390 | 1510 | 3610                        | 3980                        | 4500                        | 4890                        | *6/6                                    | *6/6 |
| ZM425                            | 4250                   | 2000                                  | *2350                       | 3000                        | *3350                       | 2670                                           | 2745 | 2855 | 1670                                    | 1515 | 1635 | 3650                        | 4020                        | 4530                        | 4920                        | *6/6                                    | *6/6 |
| ZM450                            | 4500                   | *1950                                 | *2450                       | *2950                       | *3350                       | 2795                                           | 2870 | 2980 | 1795                                    | 1640 | 1760 | 3680                        | 4050                        | 4550                        | 4960                        | *6/6                                    | *6/6 |
| ZM500                            | 5000                   | *1700                                 | *2300                       | *2900                       | *3200                       | 3045                                           | 3120 | 3230 | 2045                                    | 1890 | 2010 | 3750                        | 4120                        | 4600                        | 5000                        | *6/6                                    | *6/6 |
| ZM550                            | 5500                   | *1300                                 | *2100                       | *2500                       | *2900                       | 3345                                           | 3420 | 3530 | 2345                                    | 2190 | 2310 | 3860                        | 4230                        | 4690                        | 5040                        | *3/6                                    | *3/6 |
| ZM600                            | 6000                   | *900                                  | *1800                       | *2200                       | *2300                       | 3595                                           | 3670 | 3780 | 2595                                    | 2440 | 2560 | 3930                        | 4300                        | 4740                        | 5090                        | *3/6                                    | *3/6 |

Note: (1) \* Stands for the rated capacity when the front tyre is double tyre. (2) When the front tyre of the 2-3.5t truck is double tyre, the service weight of the truck is the weight in the table plus 110kg.

(3) The free lifting height ( without backrest ) of the 2-2.5t truck is the height ( with backrest ) in the table plus 432mm. The free lifting height ( without backrest ) of the 3t truck is the height ( with backrest ) in the table plus 568mm. The free lifting height ( without backrest ) of the 3.5t truck is the height ( with backrest ) in the table plus 505mm.

| WIDE VIEW FULL FREE 3-STAGE MAST |                        |                                       |                           |                           |                           |                                                |      |      |                                         |      |      |                           |                           |                           |                           |                              |  |
|----------------------------------|------------------------|---------------------------------------|---------------------------|---------------------------|---------------------------|------------------------------------------------|------|------|-----------------------------------------|------|------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------|--|
| Mast model                       | Max. lifting height mm | Load capacity (load center 500mm)(Kg) |                           |                           |                           | Mast overall height (fork to the ground ) (mm) |      |      | Free lift height ( with backrest ) (mm) |      |      | Service weight ( kg )     |                           |                           |                           | Mast tilting angle (°) α / β |  |
|                                  |                        | CP(Q)Y20/CP(Q)YD20/CPCD20             | CP(Q)Y25/CP(Q)YD25/CPCD25 | CP(Q)Y30/CP(Q)YD30/CPCD30 | CP(Q)Y35/CP(Q)YD35/CPCD35 | 2-2.5t                                         | 3t   | 3.5t | 2-2.5t                                  | 3t   | 3.5t | CP(Q)Y20/CP(Q)YD20/CPCD20 | CP(Q)Y25/CP(Q)YD25/CPCD25 | CP(Q)Y30/CP(Q)YD30/CPCD30 | CP(Q)Y35/CP(Q)YD35/CPCD35 |                              |  |
| ZSM360                           | 3600                   | 2000                                  | 2500                      | 3000                      | 3200                      | 1795                                           | 1930 | 1930 | 795                                     | 705  | 710  | 3520                      | 3890                      | 4510                      | 4770                      | 6/6                          |  |
| ZSM400                           | 4000                   | 2000                                  | 2500                      | 3000                      | 3200                      | 1920                                           | 2055 | 2055 | 920                                     | 830  | 835  | 3550                      | 3920                      | 4540                      | 4800                      | 6/6                          |  |
| ZSM435                           | 4350                   | 1950                                  | 2250                      | 2950                      | 3200                      | 2045                                           | 2180 | 2180 | 1045                                    | 955  | 960  | 3580                      | 3950                      | 4580                      | 4840                      | 6/6                          |  |
| ZSM450                           | 4500                   | 1900                                  | 2150                      | 2900                      | 3200                      | 2095                                           | 2230 | 2230 | 1095                                    | 1005 | 1010 | 3600                      | 3970                      | 4590                      | 4850                      | 6/6                          |  |
| ZSM470                           | 4700                   | 1850                                  | 2050                      | 2850                      | 3150                      | 2160                                           | 2230 | 2230 | 1160                                    | 1005 | 1010 | 3610                      | 3980                      | 4590                      | 4850                      | 6/6                          |  |
| ZSM480                           | 4800                   | 1850                                  | 2000                      | 2850                      | 3150                      | 2195                                           | 2330 | 2330 | 1195                                    | 1105 | 1110 | 3620                      | 3990                      | 4620                      | 4880                      | 6/6                          |  |
| ZSM500                           | 5000                   | 1750                                  | 1800                      | 2750                      | 3000                      | 2295                                           | 2430 | 2430 | 1295                                    | 1205 | 1210 | 3650                      | 4020                      | 4640                      | 4910                      | 6/6                          |  |
| ZSM540                           | 5400                   | 1450                                  | 1500                      | 2250                      | 2600                      | 2420                                           | 2555 | 2555 | 1420                                    | 1330 | 1335 | 3680                      | 4050                      | 4680                      | 4940                      | 3/6                          |  |
| ZSM600                           | 6000                   | 950                                   | 1000                      | 1500                      | 1800                      | 2645                                           | 2780 | 2780 | 1645                                    | 1555 | 1560 | 3780                      | 4150                      | 4780                      | 5040                      | 3/6                          |  |
|                                  |                        | *1600                                 | *1800                     | *2100                     | *2400                     |                                                |      |      |                                         |      |      |                           |                           |                           |                           | *3/6                         |  |