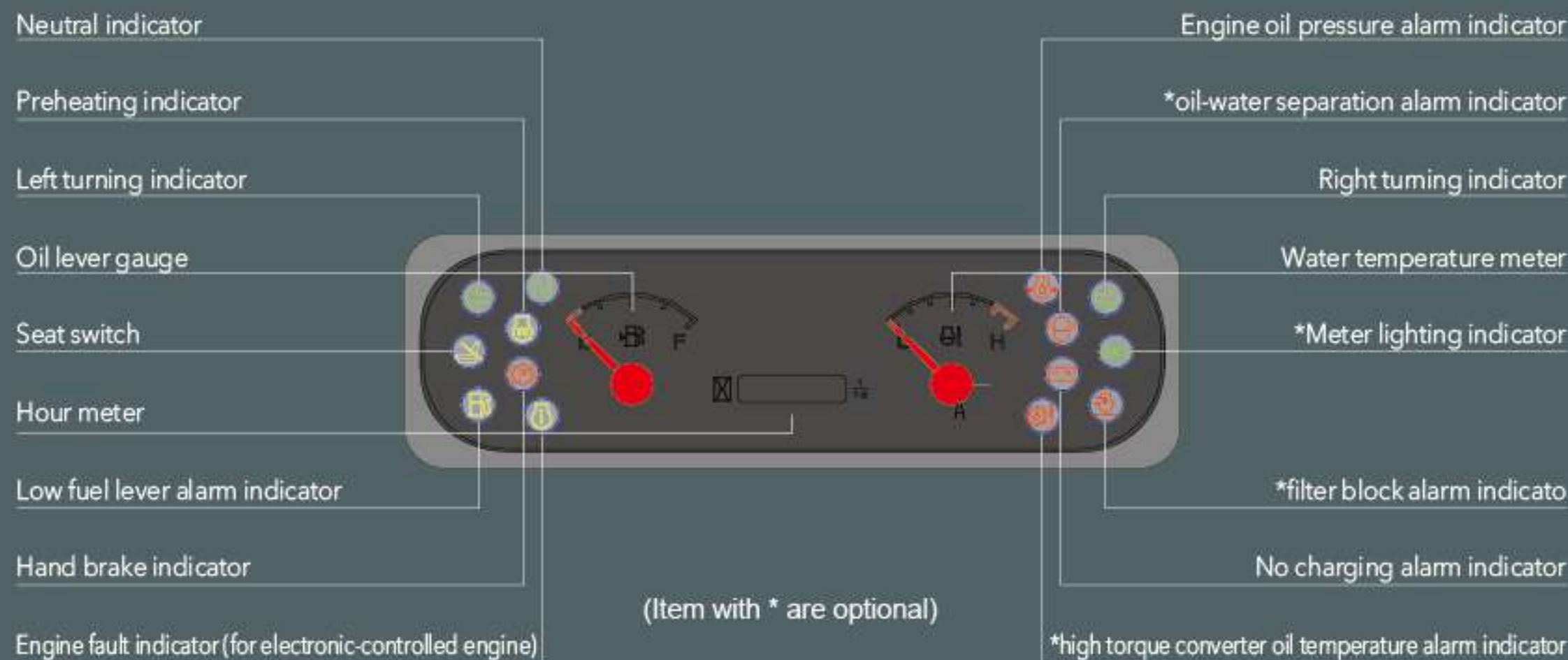


Reliable special designed instrument



Reliable special meter display the whole truck's working condition, fault detect and other important information completely which make the operator master the whole truck condition directly and conveniently.

Standard configuration

Horn  
Control valve  
Backrest  
Back view mirror  
Front combined lamp  
Transmission oil filter  
Engine flame out device  
Cable type parking brake  
Driver's tool  
Rear combined lamp  
Backward buzzer  
Tilt oil circuit self lock valve  
Tilt adjustable steering column  
Overhead guard rain cover  
Standard fork  
Integrated electric box  
Flow regulator  
Wide view mast  
Durable tread tyre  
Lifting and tilting operation lever  
Traction pin  
Head lamp  
Hydraulic oil dipstick  
Overhead guard  
Torque converter oil dipstick  
Combined instrument  
Electro-hydraulic direction changing

Optional

Driver's cab  
Warning light  
High air exhausting device  
Double air cleaner  
Suspension seat  
Lengthening fork extension  
Warm air blower  
Solid tyre  
Widen carriage  
Wind shield  
Cleansing muffler  
Fire arrested muffler  
Fire extinguisher  
Rear working light  
Travelling control system  
Torque converter oil temperature meter  
Tilting cylinder sleeve  
Customer made color  
Optional attachments  
Steel protection net  
Double-tyre and protection device  
Rotating bracket for lpg  
Single/dual fuel system  
Low speed alarm  
Attachments

AUTHORIZED DEALER



ANHUI HELI CO., LTD.

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TEL: (86 551) 63639068 (America); 63639258 (Europe); 63639358 (Asia); 63662105 (Africa & Middle East); 63639530 (Key Accounts division); 63639531 (Wheel loader)  
FAX: (86 551) 63639966  
WEBSITE: <http://www.heliforklift.net>

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

Catalog No.190329 Forklift Print



HELI  
LIFTING THE FUTURE

1-1.8 t H3 series  
Internal Combustion  
Counterbalanced Forklift Truck

H3 series  
HIGH EFFICIENCY  
ENERGY SAVING

H3 1-1.8t H3 series  
Internal Combustion Counterbalanced Forklift Truck

Improved performance superior quality



Vibration 20% reduced

Noise 1.9dB reduced

- > Cushion connection and wholly suspension driver's cab absorb whole truck's vibration effectively.
- > Noise around ear is reduced through down the tilting cylinder under the floor board and using fully closed patch type driver's cab.
- > Lower damping device inside the lifting system reduces mast shock and vibration, avoiding crash noise caused by goods falling to the ground.

Workspace 45% increased

- > Space around foot is effectively increased through up steering unit and using suspension type inching.
- > The operation space is enlarged by heightened overhead guard and using large arc shape of the overhead guard's front leg
- > Semi-suspension seat, steering wheel with small diameter, electro-hydraulic direction changing and automobile type double joystick combined switch effectively improve driving comfort.

Operator's view 20% improved

- > Operator's front view is improved through the assembling of stand wide view mast and lowering the dashboard.
- > Operator's rear view improved through the CAE optimal designed counterweight.



H3 series  
HIGH EFFICIENCY  
ENERGY SAVING

Working efficiency 20% improved

- > Small turning radius makes steering flexible and easy.
- > The truck has fast lifting speed, good gradeability and high efficiency.
- > High working efficiency guarantees the truck could meet the requirements for various kinds of complicated work condition perfectly wherever at port, dock and railway station.

Reliability 40% improved

- > The hot air reflow isolating device, optimal thermal dissipation duct and aluminum plate-fin type radiator improve cooling ability and ensure engine work reliability.
- > Automobile type oil filling cap and optimal oil filling channel structure and process ensure whole truck's safety.
- > The constant displacement pump load sensing steering system increases the lifting speed and reduces the hydraulic oil temperature.
- > The optimal design of key parts like frame, mast, overhead guard and steering axle improve the whole truck's safety and reliability.
- > The reposition of whole truck's gravity center improve loading capacity, stability and safety.

Engine hood open angle increased to 80°

- > Enlarged internal space is convenient for engine and transmission box maintenance.
- > Increased hood open angle contributes to quick and convenient maintenance.





# H3 1-1.8t

H3 series  
Internal Combustion Counterbalanced Forklift Truck



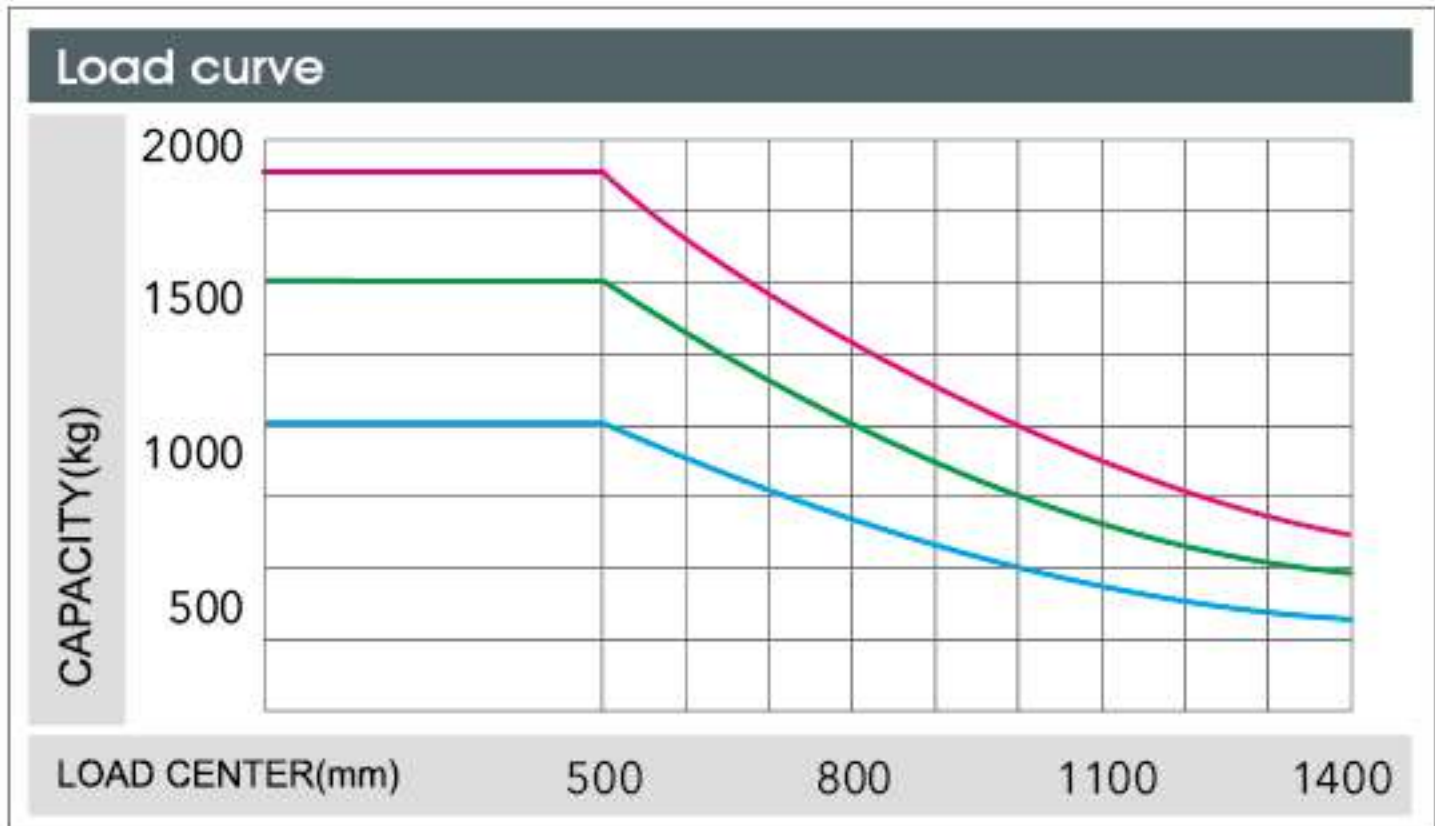
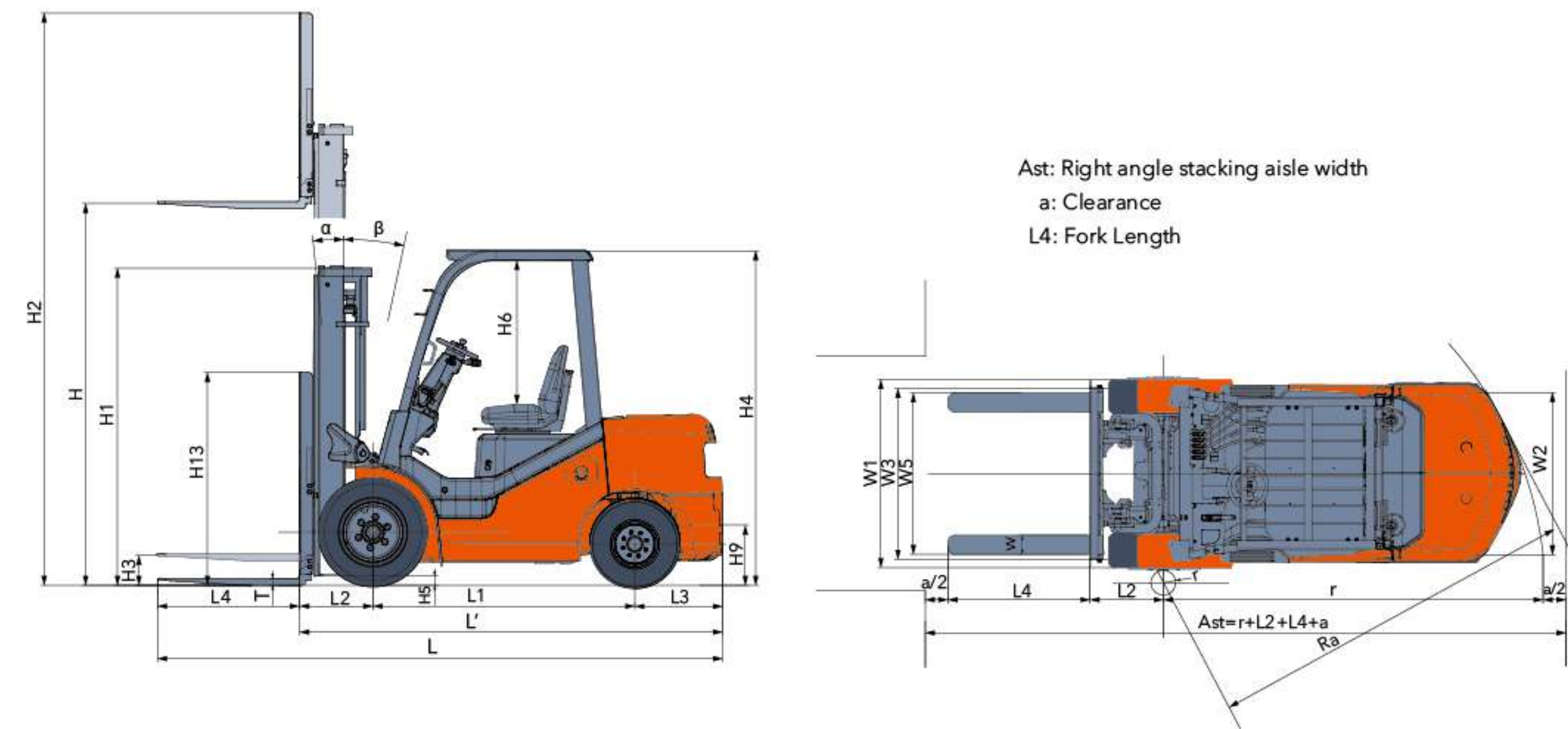
## Manufacturer and technical parameters

| Character      |                                                              |                          |                          |                          |            |
|----------------|--------------------------------------------------------------|--------------------------|--------------------------|--------------------------|------------|
| 1.01           | Manufacturer                                                 | HELI                     |                          |                          |            |
| 1.02           | Model                                                        | CPCD10/CP(Q)(Y)D10       | CPCD15/CP(Q)(Y)D15       | CPCD18/CP(Q)(Y)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       |
| 2.03           | Max.fork lifting height(With backrest)                       | H2                       | mm                       | 4014                     |            |
| 2.04           | Free lift height                                             | H3                       | mm                       | 152                      | 155        |
| 2.05           | Overall height(Overhead guard)                               | H4                       | mm                       | 2140                     |            |
| 2.06           | Min.ground 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           | Traction pin height                                          | H9                       | mm                       | 255                      |            |
| 2.09           | Backrest height(Calculated from the surface of the fork)     | H13                      | mm                       | 1014                     |            |
| 2.10           | Overall length(With fork/Without fork)                       | (L/L')                   | mm                       | 3197/2277                | 3219/2299  |
| 2.11           | Wheel base                                                   | L1                       | mm                       | 1450                     |            |
| 2.12           | Front overhang                                               | L2                       | mm                       | 406                      | 409        |
| 2.13           | Rear overhang                                                | L3                       | mm                       | 406                      | 432        |
| 2.14           | Overall width                                                | W1                       | mm                       | 1070                     |            |
| 2.15           | Tread (Front tread/Rear tread)                               | (W3/W2)                  | mm                       | 902/928                  | 932/928    |
| 2.16           | Fork adjustable range(the external of the fork)(Max./Min.)   | W5                       | mm                       | 950/200                  |            |
| 2.17           | Min.turning radius(Exterior)                                 | r                        | mm                       | 1875                     | 1930       |
| 2.18           | Min.turning radius(Interior)                                 | r'                       | mm                       | 49                       | 49         |
| 2.19           | Min.right angle aisle width                                  | Ra                       | mm                       | 2011                     | 2035       |
| 2.20           | Min.right angle stacking aisle width                         | Ast                      | mm                       | 3576                     | 3603       |
| 2.21           | Mast tilting angle                                           | α/ β                     | deg                      | 6°/10°                   |            |
| 2.22           | Fork size                                                    | L4×W×T                   | mm                       | 770×100×32               | 920×100×35 |
| Weight         |                                                              |                          |                          |                          |            |
| 3.01           | Total weight                                                 | kg                       | 2458                     | 2760                     | 2890       |
| 3.02           | Weight distribution loaded (Front/Rear)                      | kg                       | 2859/599                 | 3645/615                 | 4035/605   |
| 3.03           | Weight distribution unloaded (Front/Rear)                    | kg                       | 1232/1226                | 1204/1556                | 1188/1702  |
| Wheel and tyre |                                                              |                          |                          |                          |            |
| 4.01           | Wheel number x = drive wheel (Front/Rear)                    | 2X/2                     |                          |                          |            |
| 4.02           | Tyre type(Front/Rear)                                        | Pneumatic tyre           |                          |                          |            |
| 4.03           | 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 |            |
| 4.04           | Service brake                                                | Hydraulic-Foot Pedal     |                          |                          |            |
| 4.05           | Parking brake                                                | Mechanical-Hand Lever    |                          |                          |            |

| Performance                                     |        |              |             |             |                    |                  |                  |                  |              |              |
|-------------------------------------------------|--------|--------------|-------------|-------------|--------------------|------------------|------------------|------------------|--------------|--------------|
| Model                                           |        | CPCD10-WS1H  | CPCD15-WS1H | CPCD18-WS1H | CP(Q)(Y)D10-RC2H   | CP(Q)(Y)D15-RC2H | CP(Q)(Y)D18-RC2H | CPCD10-KU11H     | CPCD15-KU11H | CPCD18-KU11H |
| Max.drawbar pull (Loaded/Unloaded)              | kN     | 19/12        | 19/12       | 19/12       | 18/7               | 18/7             | 18/7             | 19/11            | 19/11        | 19/11        |
| Max.Gradeability (Loaded/Unloaded)              | %      | 40/24        | 40/20       | 39/18       | 39/23              | 39/19            | 35/17            | 36/18            | 40/19        | 42/45        |
| Max.traveling speed (Loaded/Unloaded)           | km/h   | 17/18        | 17/18       | 17/18       | 16/17              | 16/17            | 16/17            | 17/18            | 17/18        | 17/18        |
| Lifting Speed (Loaded/Unloaded)                 | mm/s   |              |             |             |                    |                  | 610/650          |                  |              |              |
| Lowing Speed (Loaded/Unloaded)                  | mm/s   |              |             |             |                    |                  | 450/600          |                  |              |              |
| Drive and transmission control device           |        |              |             |             |                    |                  |                  |                  |              |              |
| Engine mode                                     |        | ISUZU C240   |             |             |                    | GCT K21          |                  | KUBOTA V2403     |              |              |
| Engine rated power                              | kW/rpm | 35.4/2500    |             |             |                    | 31.2/2200        |                  | 34.1/2400        |              |              |
| Engine rated torque                             | Nm/rpm | 139.9/1800   |             |             |                    | 143.7/1600       |                  | 155.9/1600       |              |              |
| Engine cylinder number-borexstroke              |        | 4-86×102     |             |             |                    | 4-89×83          |                  | 87×102.4         |              |              |
| Engine displacement                             | L      | 2.369        |             |             |                    | 2.065            |                  | 2.434            |              |              |
| Engine type                                     |        | Diesel       |             |             |                    | GAS/LPG          |                  | Diesel           |              |              |
| Emission                                        |        | Euro Stage3A |             |             |                    | -                |                  | Euro Ⅲ / EPA T4i |              |              |
| Battery(Voltage/Capacity)                       | V/Ah   | 12/80        |             |             |                    | 12/60            |                  | 12/80            |              |              |
| Engine fuel tank capacity                       | L      | 40           |             |             |                    | 40               |                  | 40               |              |              |
| Tranmission box shifting gears(Front/Rear type) |        |              |             |             | 1-1Power Shift T/M |                  |                  |                  |              |              |

## Engine Model and Main Specification for Option

| Engine model              | Rated power/ rotating speed (Kw/rpm) | Rated power/ rotating speed (Nm/rpm) | Engine displacement (L) | Cylinder number - BorexStroke | Engine type |
|---------------------------|--------------------------------------|--------------------------------------|-------------------------|-------------------------------|-------------|
| GCT K15                   | 23.6/2400                            | 103/1600                             | 1.486                   | 4- 75.5×83                    | GAS/LPG     |
| QUANCHAI 4B4- 45V32       | 32/2600                              | 132/1800                             | 2.27                    | 4- 85×100                     | Diesel      |
| XINCHANG 4N23G31 (VE)     | 30/2600                              | 131/1800                             | 2.27                    | 4- 85×100                     | Diesel      |
| XINCHANG 4N23G31-200 (VP) | 30/2600                              | 131/1800                             | 2.27                    | 4- 85×100                     | Diesel      |



CPCD10  
CP(Q)(Y)D10

CPCD15  
CP(Q)(Y)D15

CPCD18  
CP(Q)(Y)D18

Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front of the fork. The base point of the standard load refers to the center position of the cube with 1000mm length of side. When mast is tilted forward, nonstandard fork usage or load with over wide goods, load capacity will be reduced. Different load capacity in different load center can be known in time through load chart.

| 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<br>angle<br>(°) α/β |
|                |                           | 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                                                | 2395                  | 2695                  | 2825                  | 6/10                             |
| M250           | 2500                      | 1000                                   | 1500                  | 1750                  | 1745                                                | 2425                  | 2730                  | 2860                  | 6/10                             |
| M300           | 3000                      | 1000                                   | 1500                  | 1750                  | 1995                                                | 2458                  | 2760                  | 2890                  | 6/10                             |
| M330           | 3300                      | 1000                                   | 1500                  | 1750                  | 2145                                                | 2480                  | 2780                  | 2910                  | 6/10                             |
| M350           | 3500                      | 1000                                   | 1500                  | 1750                  | 2245                                                | 2490                  | 2790                  | 2920                  | 6/10                             |
| M370           | 3700                      | 1000                                   | 1500                  | 1750                  | 2345                                                | 2505                  | 2810                  | 2940                  | 6/10                             |
| M400           | 4000                      | 1000                                   | 1500                  | 1750                  | 2545                                                | 2550                  | 2855                  | 2985                  | 6/10                             |
| M425           | 4250                      | 950                                    | 1400                  | 1600                  | 2670                                                | 2570                  | 2870                  | 3000                  | 6/10                             |
| M450           | 4500                      | 950                                    | 1300                  | 1550                  | 2795                                                | 2585                  | 2885                  | 3015                  | 6/10                             |
| M500           | 5000                      | 930                                    | 1000                  | 1100                  | 3045                                                | 2615                  | 2920                  | 3050                  | 6/6                              |
| M550           | 5500                      | *950                                   | *1350                 | *1600                 | 3345                                                | 2680                  | 2980                  | 3110                  | 3/6                              |
| M600           | 6000                      | *850                                   | *1050                 | *1400                 | 3595                                                | 2710                  | 3010                  | 3140                  | 3/6                              |

Note: (1) \*stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 1-1.8t truck is double tyre, the service weight of the truck is the weight in the table plus 50kg.

| 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 lifting height (with backrest) (mm) | service weight (kg) |                    |                    | mast tilting angle (°) α/β |
|                                  |                        | CPCD10 CP(Q)(Y)D10                    | CPCD15 CP(Q)(Y)D15 | CPCD18 CP(Q)(Y)D18 |                                               |                                          | CPCD10 CP(Q)(Y)D10  | CPCD15 CP(Q)(Y)D15 | CPCD18 CP(Q)(Y)D18 |                            |
| ZM200                            | 2000                   | 1000                                  | 1500               | 1750               | 1495                                          | 480                                      | 2430                | 2730               | 2860               | 6/10                       |
| ZM250                            | 2500                   | 1000                                  | 1500               | 1750               | 1745                                          | 730                                      | 2460                | 2765               | 2895               | 6/10                       |
| ZM300                            | 3000                   | 1000                                  | 1500               | 1750               | 1995                                          | 980                                      | 2495                | 2795               | 2930               | 6/10                       |
| ZM330                            | 3300                   | 1000                                  | 1500               | 1750               | 2145                                          | 1130                                     | 2520                | 2820               | 2950               | 6/10                       |
| ZM350                            | 3500                   | 1000                                  | 1500               | 1750               | 2245                                          | 1230                                     | 2535                | 2835               | 2965               | 6/10                       |
| ZM370                            | 3700                   | 1000                                  | 1500               | 1750               | 2345                                          | 1330                                     | 2545                | 2845               | 2975               | 6/10                       |
| ZM400                            | 4000                   | 1000                                  | 1500               | 1750               | 2545                                          | 1530                                     | 2590                | 2895               | 3025               | 6/10                       |
| ZM425                            | 4250                   | 1000                                  | 1400               | 1600               | 2670                                          | 1655                                     | 2610                | 2915               | 3045               | 6/10                       |
| ZM450                            | 4500                   | 950                                   | 1350               | 1500               | 2795                                          | 1780                                     | 2630                | 2930               | 3060               | 6/10                       |
| ZM500                            | 5000                   | 900                                   | 1300               | 1400               | 3045                                          | 2030                                     | 2665                | 2965               | 3095               | 6/10                       |
| ZM550                            | 5500                   | *900                                  | *1150              | *1500              | 3345                                          | 2330                                     | 2725                | 3030               | 3155               | 3/6                        |
| ZM600                            | 6000                   | *850                                  | *1050              | *1400              | 3595                                          | 2580                                     | 2760                | 3060               | 3190               | 3/6                        |

Note: (1) \*stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 1-1.8t truck is double tyre, the service weight of the truck is the weight in the table plus 50kg. (3) The free lifting height (without backrest) of the 1-1.8t truck is the height (with backrest) in the table plus 379mm.

| WIDE VIEW FULL FREE 3-STAGE MAST |                        |                                       |                    |                    |                                               |                                          |                     |                    |                    |                            |
|----------------------------------|------------------------|---------------------------------------|--------------------|--------------------|-----------------------------------------------|------------------------------------------|---------------------|--------------------|--------------------|----------------------------|
| mast model                       | Max. lifting height mm | load capacity (load center 500mm)(kg) |                    |                    | (mm) mast overall height (fork to the ground) | (mm) free lifting height (with backrest) | service weight (kg) |                    |                    | mast tilting angle (°) α/β |
|                                  |                        | CPCD10 CP(Q)(Y)D10                    | CPCD15 CP(Q)(Y)D15 | CPCD18 CP(Q)(Y)D18 |                                               |                                          | CPCD10 CP(Q)(Y)D10  | CPCD15 CP(Q)(Y)D15 | CPCD18 CP(Q)(Y)D18 |                            |
| ZSM360                           | 3600                   | 1000                                  | 1450               | 1750               | 1790                                          | 775                                      | 2545                | 2845               | 2975               | 6/6                        |
| ZSM400                           | 4000                   | 1000                                  | 1400               | 1600               | 1925                                          | 910                                      | 2565                | 2870               | 3000               | 6/6                        |
| ZSM435                           | 4350                   | 900                                   | 1350               | 1500               | 2040                                          | 1025                                     | 2590                | 2895               | 3025               | 6/6                        |
| ZSM450                           | 4500                   | 900                                   | 1300               | 1400               | 2090                                          | 1075                                     | 2605                | 2905               | 3035               | 6/6                        |
| ZSM470                           | 4700                   | 900                                   | 1300               | 1400               | 2160                                          | 1145                                     | 2620                | 2920               | 3050               | 6/6                        |
| ZSM480                           | 4800                   | 900                                   | 1300               | 1400               | 2190                                          | 1175                                     | 2625                | 2930               | 3060               | 6/6                        |
| ZSM500                           | 5000                   | 800                                   | 1200               | 1300               | 2290                                          | 1275                                     | 2645                | 2950               | 3080               | 6/6                        |
| ZSM540                           | 5400                   | 800                                   | 1200               | 1300               | 2415                                          | 1400                                     | 2675                | 2975               | 3105               | 3/6                        |
| ZSM600                           | 6000                   | *850                                  | *1200              | *1500              | 2640                                          | 1625                                     | 2745                | 3045               | 3175               | 3/6                        |

Note: (1) \*stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 1-1.8t truck is double tyre, the service weight of the truck is the weight in the table plus 50kg. (3) The free lifting height (without backrest) of the 1-1.8t truck is the height (with backrest) in the table plus 484mm.