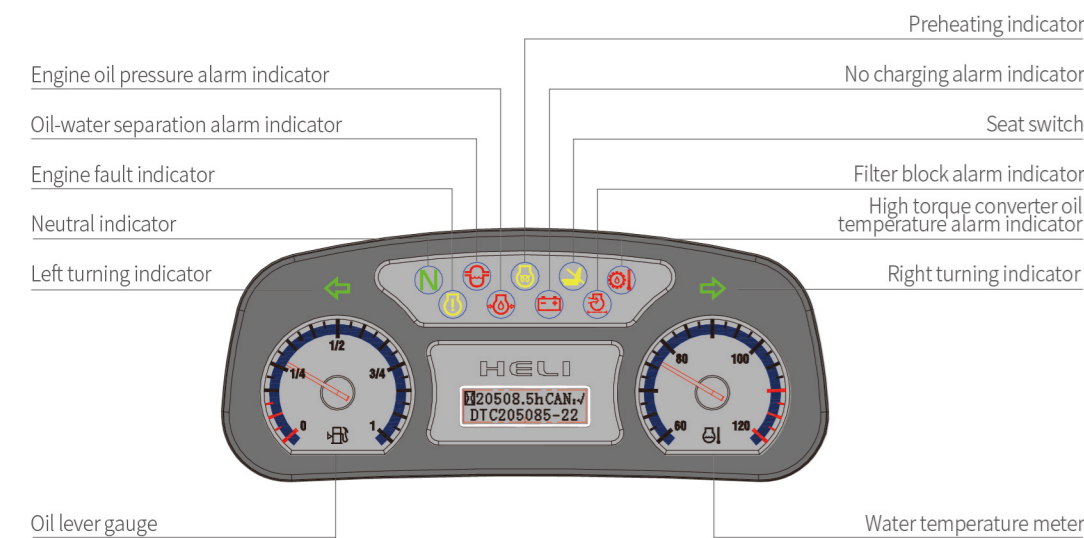


**Reliable special designed instrument**



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      Optional      Available attachment**

| Standard configuration     | Optional                               | Available attachment                 |
|----------------------------|--|--------------------------------------|
| Fork                       | Filter core of transmission oil        | Carpet boom                          |
| Water temperature gauge    | Backward buzzer                        | Lifting hook                         |
| Traction pin               | Transmission oil gauge                 | Side shifter                         |
| Backrest                   | Filter of hydraulic oil circuit        | Paper roll clamp                     |
| Overhead guard             | Safety switch for neutral gear         | Rotating fork                        |
| Electric horn              | Rain proof for overhead guard          | Cargo boom                           |
| Reversing light            | Air intaking device                    | Lengthen fork                        |
| Hour meter                 | Durable tyre with pattern              | Multi-function drum clamp            |
| Fuel gauge                 | Cable type parking brake               | Rotating clamp                       |
| Charging indicator         | Hydraulic oil gauge                    | Widen fork carrier                   |
| Operator's tool kit        | Preheating indicator                   | Lengthen fork extension              |
| Oil pressure alarm         | Full hydraulic powered steering        | Load stabilizer                      |
| Steering indicator         | Flow regulator for lifting oil circuit | Push-pull                            |
| Wide view mast             | Levers for lifting and tilting         | Tilting fork/bucket                  |
| Standard seat              | Cyclone air cleaner                    | Wide view two stage free lift mast   |
| Front lamp                 | Adjustable tilting steering column     | Wide view three stage free lift mast |
| Rear combined light        | Engine automatic preheating system     |                                      |
| Shaped pedal pad           | Electric flameout                      |                                      |
| Control valve (two throws) | Engine fault indicator                 |                                      |

**2-3.8 t**

**K2 series Internal Combustion Counterbalanced Forklift Truck**



www.heliforklift.net

**K2 SERIES 2-3.8 t**



**Reliability improved**

- Casted steering axle
- Improved mast strength and rigidity
- Reduced front overhang improves truck stability.
- The sealing performance of drive axle is improved.
- Enhanced design of rim.
- The strength and rigidity of overhead guard are improved.
- The protection level of electric system is improved and the electrical parts adopts modular design.
- The 24° conical sealing is adopted on the hydraulic pipeline and the sealing performance is improved.
- The cooling performance of the truck is improved.
- The loading capacity of mast and frame is improved and the safety performance is improved.

**Better performance in energy saving and consumption reducing**

- The oil consumption is reduced.
- The pressure loss is reduced.
- LED lights are standard.

**The operation efficiency improved**

- The lifting speed improved.
- The steering radius is small.
- The lights switch is integrated on steering knob and it is convenient for operation.

**Operation comfort improved**

- The diameter of steering wheel is reduced to reduce arm fatigue.
- The space for pedal is enlarged.
- Seat is design with man-machine engineering.
- Backlight design of meter is easy to read and engine fault code is shown on the meter.
- The horizontal view of mast is improved.
- Lowering buffering is configured.
- Head space is enlarged.

**The performance of easy maintenance is further improved**

- The drive axle is improve to reduced maintenance frequency.
- Fault code is displayed on the meter to improve truck maintenance efficiency.
- Large opening angle of engine hood makes maintenance easier.
- The contact space between engine and transmission box is enlarged and it is easy for engine oil filter maintenance.
- Integrated electric box is easy for maintenance.
- The 24° conical sealing is adopted on hydraulic pipeline and it is easy for assembly and disassembly.



**HELI smart fleet management system (optional)**

|                      |                                       |
|----------------------|---------------------------------------|
| Vehicle positioning  | Statistical form                      |
| Remote diagnosis     | Vehicle management                    |
| Remote monitoring    | Identification recognition (optional) |
| Maintenance reminder | Weight management (optional)          |
| Battery management   | Collision management (optional)       |

# K2 SERIES 2-3.8 t

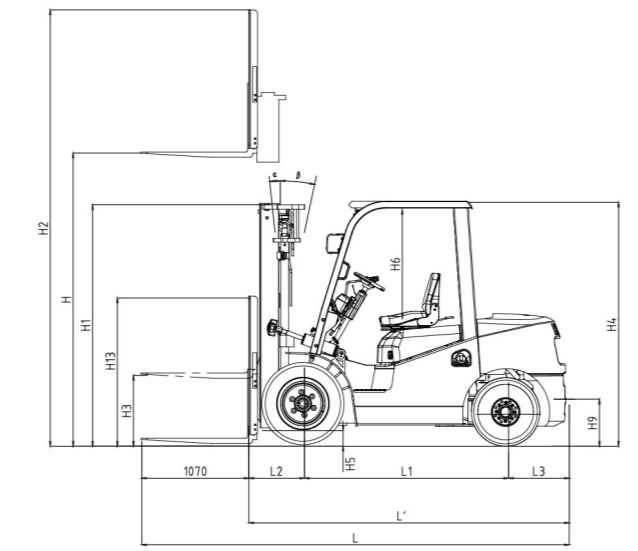
## Manufacturer and technical parameters

| Characteristics |                | HELI       |        |       |        |       |        |       |        |       |        |  |
|-----------------|----------------|------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--|
|                 |                | CPC20      | CPCD20 | CPC25 | CPCD25 | CPC30 | CPCD30 | CPC35 | CPCD35 | CPC38 | CPCD38 |  |
| 1.01            | Manufacturer   |            |        |       |        |       |        |       |        |       |        |  |
| 1.02            | Model          |            |        |       |        |       |        |       |        |       |        |  |
| 1.03            | Rated capacity | kg         | 2000   | 2500  | 3000   | 3500  | 3800   |       |        |       |        |  |
| 1.04            | Load center    | mm         | 500    | 500   | 500    | 500   | 500    |       |        |       |        |  |
| 1.05            | Driving mode   | Diesel     |        |       |        |       |        |       |        |       |        |  |
| 1.06            | Power type     | Sit-ontype |        |       |        |       |        |       |        |       |        |  |

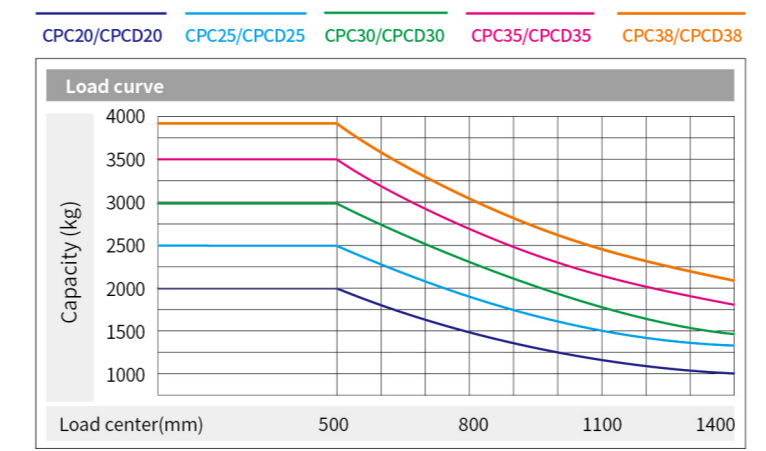
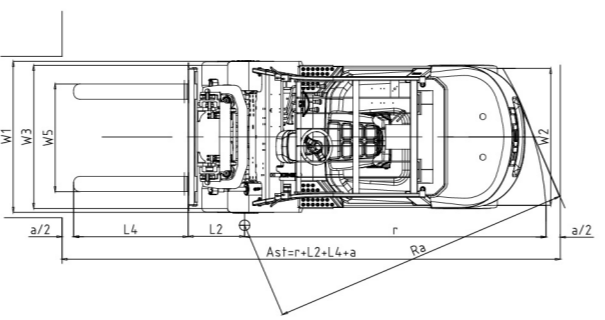
| Dimensions |  |         |      |            |             |             |             |             |  |  |  |  |
|------------|--|---------|------|------------|-------------|-------------|-------------|-------------|--|--|--|--|
| 2.01       | Lifting height (standard)                                    | H       | mm   | 3000       | 3000        | 3000        | 3000        | 3000        |  |  |  |  |
| 2.02       | Mast overall height(Fork to the ground and mast be vertical) | H1      | mm   | 2000       | 2000        | 2070        | 2120        | 2180        |  |  |  |  |
| 2.03       | Max.fork lifting height(With backrest)                       | H2      | mm   | 4030       | 4030        | 4217        | 4217        | 4217        |  |  |  |  |
| 2.04       | Free lift height   | H3      | mm   | 150        | 150         | 155         | 160         | 160         |  |  |  |  |
| 2.05       | Overall height(Overhead guard)                               | H4      | mm   | 2120       | 2120        | 2140        | 2140        | 2140        |  |  |  |  |
| 2.06       | Min.ground clearance(At the mast)                            | H5      | mm   | 115        | 115         | 135         | 135         | 135         |  |  |  |  |
| 2.07       | Distance from the surface of the seat to the overhead guard  | H6      | mm   | 1050       | 1050        | 1050        | 1050        | 1050        |  |  |  |  |
| 2.08       | Traction pin height  | H8      | mm   | 290        | 290         | 310         | 310         | 310         |  |  |  |  |
| 2.09       | Backrest height(Calculated from the surface of the fork)     | H13     | mm   | 1000       | 1000        | 1182        | 1177        | 1177        |  |  |  |  |
| 2.10       | Overall length(With fork/Without fork)                       | (L/L)   | mm   | 3460/2540  | 3680/2610   | 3814/2744   | 3820/2750   | 3870/2800   |  |  |  |  |
| 2.11       | Wheel base   | L1      | mm   | 1650       | 1650        | 1750        | 1750        | 1750        |  |  |  |  |
| 2.12       | Front overhang   | L2      | mm   | 465        | 465         | 478         | 484         | 484         |  |  |  |  |
| 2.13       | Rear overhang  | L3      | mm   | 425        | 495         | 520         | 520         | 565         |  |  |  |  |
| 2.14       | Overall width  | W1      | mm   | 1160       | 1160        | 1225        | 1225        | 1225        |  |  |  |  |
| 2.15       | Tread (Front tread/Rear tread)                               | (W3/W2) | mm   | 970/970    |             | 1000/970    |             | 1000/970    |  |  |  |  |
| 2.16       | Fork adjustable range(the external of the fork)(Max./Min.)   | W5      | mm   | 1030/244   | 1030/244    | 1060/250    | 1060/250    | 1060/250    |  |  |  |  |
| 2.17       | Min.turning radius(Exterior)                                 | r       | mm   | 2215       | 2270        | 2400        | 2400        | 2410        |  |  |  |  |
| 2.18       | Min.turning radius(Interior)                                 | r'      | mm   | 35         | 35          | 80          | 80          | 80          |  |  |  |  |
| 2.19       | Min.right angle stacking aisle width                         | Ra      | mm   | 2235       | 2290        | 2360        | 2360        | 2420        |  |  |  |  |
| 2.20       | Mast tilting angle (forward /rear)                           | α/β     | deg. | 6°/12°     | 6°/12°      | 6°/12°      | 6°/12°      | 6°/12°      |  |  |  |  |
| 2.21       | Fork size  | L4/W4/T | mm   | 920x122x40 | 1070x122x40 | 1070x125x45 | 1070x125x50 | 1070x125x50 |  |  |  |  |

| Weight |   |    |           |           |           |           |           |  |  |  |  |  |
|--------|---|----|-----------|-----------|-----------|-----------|-----------|--|--|--|--|--|
| 3.01   | Total weight                              | kg | 3300      | 3650      | 4270      | 4600      | 4750      |  |  |  |  |  |
| 3.02   | Weight distribution loaded (Front/Rear)   | kg | 4710/590  | 5440/710  | 6430/840  | 7280/820  | 7710/840  |  |  |  |  |  |
| 3.03   | Weight distribution unloaded (Front/Rear) | kg | 1540/1760 | 1470/2180 | 1750/2520 | 1790/2810 | 1800/2950 |  |  |  |  |  |

| 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)                     | 7.00-12-12PR/6.00-9-10PR |  | 28x9-15-14PR/6.5-10-10PR | 28x9-15-14PR/6.5-10-10PR | 28x9-15-14PR/6.5-10-10PR | 28x9-15-14PR/6.5-10-10PR |  |  |  |  |
| 4.04           | Service brake                             | Hydraulic-foot Pedel     |  |                          |                          |                          |                          |  |  |  |  |
| 4.05           | Parking brake                             | Mechanical-Hand lever    |  |                          |                          |                          |                          |  |  |  |  |



RASA: Right angle stacking aisle width  
a: Clearance  
L4: Length of fork



**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.

## Truck main specifications and drive and transmission control device

| Performance                                |        |  |        |         |         |         |        |         |        |                                    |        |         |         |         |        |         |        |
|--|--------|--|--------|---------|---------|---------|--------|---------|--------|------------------------------------|--------|---------|---------|---------|--------|---------|--------|
| Model                                      |        | CPC20                                      | CPCD20 | CPC25   | CPCD25  | CPC30   | CPCD30 | CPC35   | CPCD35 | CPC20                              | CPCD20 | CPC25   | CPCD25  | CPC30   | CPCD30 | CPC35   | CPCD35 |
| Max. Travelling speed (loaded/unloaded)    | km/h   | 18/18                                      |        | 18/18   |         | 18/19   |        | 19/19   |        | 18/18                              |        | 18/18   |         | 19/19   |        | 19/19   |        |
| Lifting Speed (Loaded/Unloaded)            | mm/s   | 500/550                                    |        | 500/550 |         | 475/495 |        | 400/420 |        | 500/550                            |        | 500/550 |         | 475/495 |        | 400/420 |        |
| Lowing Speed (Loaded/Unloaded)             | mm/s   | 450/500                                    |        | 450/500 |         | 450/500 |        | 450/500 |        | 450/500                            |        | 450/500 |         | 450/500 |        | 450/500 |        |
| Max.drawbar pull (Loaded/Unloaded)         | kN     | 17/12                                      | 17/12  | 18/12.5 | 18/12.5 | 19/15   | 19/16  | 19/14   | 19/16  | 17/12                              | 17/12  | 18/12.5 | 18/12.5 | 19/15   | 19/16  | 19/14   | 19/16  |
| Max.Gradeability (Loaded/Unloaded)         | %      | 27/29                                      | 27/37  | 25/23   | 31/23   | 22/23   | 22/26  | 20/22   | 20/25  | 27/29                              | 27/37  | 25/23   | 31/23   | 22/23   | 22/26  | 20/22   | 20/25  |
| Drive and transmission control device      |        |  |        |         |         |         |        |         |        |                                    |        |         |         |         |        |         |        |
| Battery(Voltage/Capacity)                  | V/Ah   | 12/80                                      |        |         |         |         |        |         |        | 12/80                              |        |         |         |         |        |         |        |
| Engine manufacturer /mode                  |        | XINCHANG 4D27XG40/505(High Fan;HPCR)       |        |         |         |         |        |         |        | QUANCHAI 4C2-50C41 (High Fan;HPCR) |        |         |         |         |        |         |        |
| Rated power/Speed                          | kW/rpm | 36.8/2500                                  |        |         |         |         |        |         |        | 36.8/2500                          |        |         |         |         |        |         |        |
| Max. torque/Speed                          | Nm/rpm | 165/1500-1800                              |        |         |         |         |        |         |        | 170/1400-2000                      |        |         |         |         |        |         |        |
| Cylinder number-Bore X Stroke/Displacement | /L     | 4-90x105/2.67                              |        |         |         |         |        |         |        | 4-90x105/2.67                      |        |         |         |         |        |         |        |
| Engine fuel tank capacity                  | L      | 70   |        |         |         |         |        |         |        | 70                                 |        |         |         |         |        |         |        |
| Emission                                   |        | China Stage III                            |        |         |         |         |        |         |        | China Stage III/Beijing Stage IV   |        |         |         |         |        |         |        |
| Transmission box shifting gears            |        | 1-1 Power Shift T/M / 2-2 Manual Shift T/M |        |         |         |         |        |         |        |                                    |        |         |         |         |        |         |        |

## Engine Model and Main Specification for Option

| Engine model                       | Tonnage | Rated power/ Speed (Kw/rpm) | Max. torque/ Speed (Nm/rpm) | Engine displacement (L) | Cylinder number - BorexStroke | Emission                        |
|------------------------------------|---------|-----------------------------|-----------------------------|-------------------------|-------------------------------|---------------------------------|
| QUANCHAI 4C3-50V33(VE)             | 2-3.5 t | 36.8/2500                   | 174/1800                    | 2.98                    | 4-95X105                      | China Stage III                 |
| XINCHANG 4D29G31(High Fan;VP)      | 2-3.8 t | 36.8/2500                   | 155/1700-1900               | 2.9                     | 4-93X105                      | China Stage III                 |
| Mitubishi s4s                      | 2-3.5 t | 35.3/2250                   | 177/1700                    | 3.331                   | 4-94X120                      | Euro Stgse IIIA/China Stage III |
| QUANCHAI 4C2-50V33(High fan; VP)   | 2-3.8 t | 36.8/2500                   | 157/1800                    | 2.85                    | 4-93X105                      | China Stage III                 |
| QUANCHAI 4C4-63C31(High fan,HPCR)  | 2-3.8 t | 46/2500                     | 200/1500-1875               | 3.17                    | 4-98X105                      | China Stage III                 |
| XINCHANG 4D29X41(High fan,HPCR)    | 2-3.8 t | 36.8/2500                   | 190/1600-1800               | 2.85                    | 4-93X105                      | China Stage IV                  |
| XINCHANG 4D32X41(High fan,HPCR)    | 2-3.8 t | 36.8/2500                   | 210/1400-1600               | 3.17                    | 4-98X105                      | China Stage IV                  |
| QUANCHAI V32-50C42(High fan,HPCR)  | 2-3.8 t | 36.8/2500                   | 200/1500-1800               | 3.17                    | 4-98X105                      | China Stage IV                  |
| QUANCHAI V29-50C42 (High fan,HPCR) | 2-3.8 t | 36.8/2500                   | 190/1500-1800               | 2.85                    | 4-93X105                      | China Stage IV                  |
| QUANCHAI V29-50V42 (High fan,VP)   | 2-3.8 t | 36.8/2500                   | 170/1800                    | 2.85                    | 4-93X105                      | China Stage IV                  |
| QUANCHAI V32-50V42 (High fan,VP)   | 2-3.8 t | 36.8/2500                   | 190/1500-1800               | 3.17                    | 4-98X105                      | China Stage IV                  |
| XINCHANG 4D29V41(High fan,VP)      | 2-3.8 t | 36.8/2500                   | 165/1600-1800               | 2.85                    | 4-93X105                      | China Stage IV                  |

## 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 (°)α/β |      |
|------------|------------------------|--|-------|-------|-------|------|---|------|------|------|---------------------|------|------|------|------|---------------------------|------|
|            |                        | 2t                                     | 2.5t  | 3t    | 3.5t  | 3.8t | 2-2.5t  | 3t   | 3.5t | 3.8t | 2t                  | 2.5t | 3t   | 3.5t | 3.8t |                           |      |
| M200       | 2000                   | 2000                                   | 2500  | 3000  | 3500  | 3800 | 1500  | 1570 | 1620 | 1680 | 3210                | 3560 | 4170 | 4490 | 4640 | 6/12                      |      |
| M250       | 2500                   | 2000                                   | 2500  | 3000  | 3500  | 3800 | 1750  | 1820 | 1870 | 1930 | 3260                | 3600 | 4220 | 4550 | 4700 | 6/12                      |      |
| M300       | 3000                   | 2000                                   | 2500  | 3000  | 3500  | 3800 | 2000  | 2070 | 2120 | 2180 | 3300                | 3650 | 4270 | 4600 | 4750 | 6/12                      |      |
| M330       | 3300                   | 2000                                   | 2500  | 3000  | 3500  | 3800 | 2150  | 2220 | 2270 | 2330 | 3330                | 3670 | 4290 | 4630 | 4780 | 6/12                      |      |
| M350       | 3500                   | 2000                                   | 2500  | 3000  | 3500  | 3800 | 2250  | 2320 | 2370 | 2430 | 3350                | 3690 | 4310 | 4650 | 4800 | 6/12                      |      |
| M370       | 3700                   | 2000                                   | 2500  | 3000  | 3500  | 3700 | 2250  | 2420 | 2470 | 2530 | 3360                | 3710 | 4330 | 4670 | 4820 | 6/12                      |      |
| M400       | 4000                   | 1950                                   | 2350  | 2850  | 3300  | 3600 | 2550  | 2620 | 2670 | 2730 | 3440                | 3790 | 4410 | 4760 | 4910 | 6/12                      |      |
| M425       | 4250                   | 1900                                   | 2300  | 2750  | 3100  | 3350 | 2675  | 2745 | 2795 | 2855 | 3460                | 3810 | 4440 | 4780 | 4930 | 6/12                      |      |
| M450       | 4500                   | 1700                                   | 1950  | 2350  | 2650  | 2950 | 3250  | 2800 | 2870 | 2920 | 2980                | 3490 | 3830 | 4460 | 4810 | 4960                      | 6/12 |
| M500       | 5000                   | 1500                                   | 1700  | 2100  | 2450  | 2650 | 3050  | 3120 | 3170 | 3230 | 3530                | 3880 | 4510 | 4860 | 5010 | 6/6                       |      |
| M550       | 5500                   | *1600                                  | *2000 | *2400 | *2500 | -    | 3350  | 3420 | 3470 | 3530 | 3630                | 3970 | 4610 | 4970 | 5120 | *6/6                      |      |
| M600       | 6000                   | *1500                                  | *1800 | *2200 | *2300 | -    | 3600  | 3670 | 3720 | 3780 | 3670                | 4020 | 4650 | 5020 | 5170 | *6/6                      |      |

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 lifting height (with backrest) (mm) |      |      | Service weight (kg) |      |      |      |      | Mast tilting angle (°)α/β |      |
|------------|------------------------|--|------|------|------|------|---|------|------|------|--|------|------|---------------------|------|------|------|------|---------------------------|------|
|            |                        | 2t                                     | 2.5t | 3t   | 3.5t | 3.8t | 2-2.5t  | 3t   | 3.5t | 3.8t | 2-2.5t                                   | 3t   | 3.5t | 3.8t                | 2t   | 2.5t | 3t   | 3.5t |                           | 3.8t |
| ZM200      | 2000                   | 2000                                   | 2500 | 3000 | 3500 | 3800 | 1500  | 1570 | 1620 | 1680 | 500                                      | 340  | 443  | 503                 | 3240 | 3580 | 4190 | 4510 | 4660                      | 6/12 |
| ZM250      | 2500                   | 2000                                   | 2500 | 3000 | 3500 | 3800 | 1750  | 1820 | 1870 | 1930 | 750                                      | 590  | 693  | 753                 | 3290 | 3630 | 4240 | 4560 | 4710                      | 6/12 |
| ZM300      | 3000                   | 2000                                   | 2500 | 3000 | 3500 | 3800 | 2000  | 2070 | 2120 | 2180 | 1000                                     | 840  | 943  | 1003                | 3330 | 3680 | 4290 | 4620 | 4770                      | 6/12 |
| ZM330      | 3300                   | 2000                                   | 2500 | 3000 | 3500 | 3800 | 2150  | 2220 | 2270 | 2330 | 1150                                     | 990  | 1093 | 1153                | 3360 | 3710 | 4320 | 4650 | 4800                      | 6/12 |
| ZM350      | 3500                   | 2000                                   | 2500 | 3000 | 3500 | 3800 | 2250  | 2320 | 2370 | 2430 | 1250                                     | 1090 | 1193 | 1253                | 3380 | 3730 | 4340 | 4670 | 4820                      | 6/12 |
| ZM370      | 3700                   | 2000                                   | 2500 | 3000 | 3500 | 3700 | 2350  | 2420 | 2470 | 2530 | 1350                                     | 1190 | 1293 | 1353                | 3400 | 3750 | 4360 | 4690 | 4840                      | 6/12 |
| ZM400      | 4000                   |  |      |      |      |      |   |      |      |      |  |      |      |                     |      |      |      |      |                           |      |