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## Elevate Your Power



# TUBOSHU<sup>7</sup>

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# TUBOSHU<sup>7</sup>

## ELECTRIC FORKLIFT<sup>7</sup> TF15-18E

# TECHNICAL SPECIFICATION

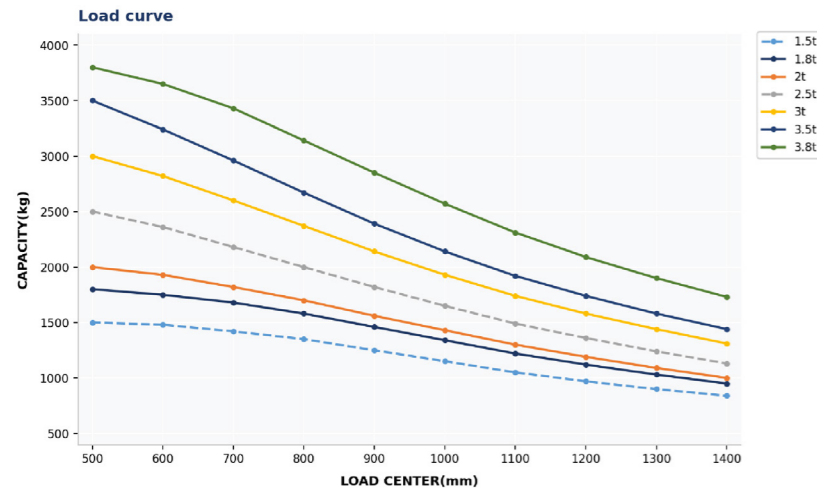
| CHARACTERISTICS                                                                                          |         |    |                 |                 |                 |                 |
|----------------------------------------------------------------------------------------------------------|---------|----|-----------------|-----------------|-----------------|-----------------|
| Manufacturer                                                                                             | TUBOSHU |    |                 |                 |                 |                 |
| Model                                                                                                    |         |    | TF15E           | TF18E           | TF20E           | TF25E           |
| Configuration Number                                                                                     |         |    | TUHECPD15UK     | TUHECPD18UK     | TUHECPD20UK     | TUHECPD25UK     |
| Rated Capacity                                                                                           | Q       | kg | 1500            | 1800            | 2000            | 2500            |
| Load Center Distance                                                                                     | C       | mm | 500             | 500             | 500             | 500             |
| Power Mode                                                                                               |         |    | Lithium Battery | Lithium Battery | Lithium Battery | Lithium Battery |
| Driving Mode                                                                                             |         |    | Seated          | Seated          | Seated          | Seated          |
| Front Overhang                                                                                           | x       | mm | 409             | 409             | 460             | 460             |
| Wheelbase                                                                                                | y       | mm | 1475            | 1475            | 1660            | 1660            |
| DIMENSION PARAMETER                                                                                      |         |    |                 |                 |                 |                 |
| Mast Tilt Angle                                                                                          | α/β     | °  | 6/8             | 6/10            | 6/10            | 6/10            |
| Height (Mast Lowered)                                                                                    | h1      | mm | 1995            | 2000            | 2000            | 2000            |
| Free lifting height                                                                                      | h2      | mm | 155             | 165             | 165             | 165             |
| Lifting Height (Standard)                                                                                | h3      | mm | 3000            | 3000            | 3000            | 3000            |
| Max Height Extended (With Backrest)                                                                      | h4      | mm | 4014            | 4320            | 4320            | 4320            |
| Height of Overhead Guard                                                                                 | h6      | mm | 2130            | 2170            | 2170            | 2170            |
| Seat Height Relating to SIP (to Ground)                                                                  | h7      | mm | 1125            | 1154            | 1154            | 1154            |
| Towing Coupling Height                                                                                   | h10     | mm | 250             | 300             | 300             | 300             |
| Overall Length with Fork                                                                                 | l1      | mm | 3120            | 3354            | 3504            | 3504            |
| Overall Length without Fork                                                                              | l2      | mm | 2200            | 2434            | 2434            | 2434            |
| Overall Width                                                                                            | b1      | mm | 1120            | 1180            | 1180            | 1180            |
| Fork Carriage According to ISO2328                                                                       |         | mm | 2A              | 2A              | 2A              | 2A              |
| Fork Size (thickness x width x length)                                                                   | s/e/l   | mm | 35x100x920      | 40x122x920      | 40x122x1070     | 40x122x1070     |
| Distance Across Fork-Arms MAX/MIN                                                                        | b5      | mm | 960/200         | 1030/250        | 1030/250        | 1030/250        |
| Ground Clearance at Mast                                                                                 | m1      | mm | 100             | 100             | 100             | 100             |
| Ground Clearance (center of wheelbase)                                                                   | m2      | mm | 95              | 125             | 125             | 125             |
| Right Angle Stacking Aisle Width For Pallet (1000x1200mm) the Side of 1200 mm Is Placed Across The Forks | Ast     | mm | 3575            | 3753            | 3753            | 3753            |
| Right Angle Stacking Aisle Width For Pallet (800x1200mm) the Side of 1200 mm Is Placed Across The Forks  | Ast     | mm | 3770            | 3953            | 3953            | 3953            |
| Minimum Outside Turning Radius                                                                           | Wa      | mm | 1920            | 2140            | 2140            | 2140            |
| WEIGHT                                                                                                   |         |    |                 |                 |                 |                 |
| Total weight (with/without battery)                                                                      |         | kg | 2855/2675       | 2970/2790       | 3585/3395       | 3925/3735       |
| Axle load (laden, front/rear)                                                                            |         | kg | 3719/636        | 4203/567        | 4970/615        | 5790/635        |
| Axle load (unladen, front/rear)                                                                          |         | kg | 1294/1561       | 1293/1677       | 1750/1835       | 1780/2145       |
| TYRES                                                                                                    |         |    |                 |                 |                 |                 |
| Tyre Type                                                                                                |         |    | Pneumatic Tyre  | Pneumatic Tyre  | Pneumatic Tyre  | Pneumatic Tyre  |
| Tyre Size, Front                                                                                         |         |    | 6.50-10-10PR    | 6.50-10-10PR    | 6.50-10-10PR    | 6.50-10-10PR    |
| Tyre Size, Rear                                                                                          |         |    | 16x6-8-10PR     | 16x6-8-10PR     | 16x6-8-10PR     | 16x6-8-10PR     |
| Wheels Number Front/Rear                                                                                 |         |    | 2/2             | 2/2             | 2/2             | 2/2             |
| Tread, Front                                                                                             | b10     | mm | 934             | 934             | 934             | 934             |
| Tread, Rear                                                                                              | b11     | mm | 920             | 920             | 920             | 920             |

# TECHNICAL SPECIFICATION

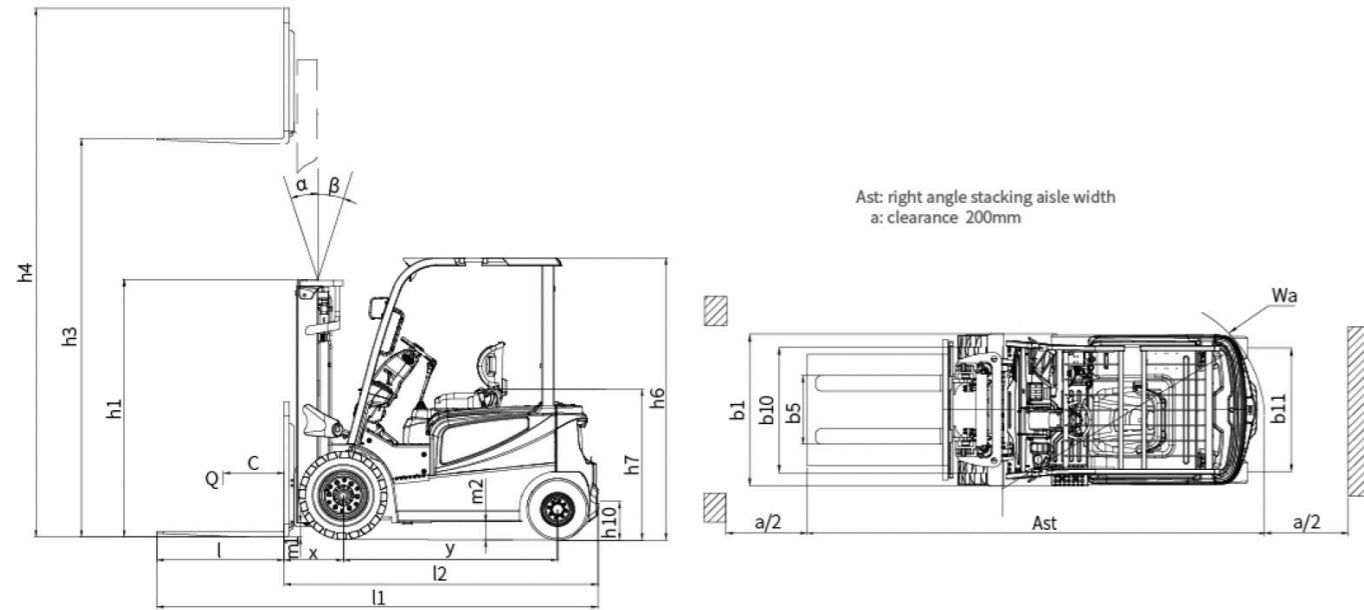
| PERFORMANCE DATA                         |                                                                                                                                                                                                                                                     | TF15E                | TF18E       | TF20E       | TF25E       |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|
| Travel Speed (Laden/Unladen)             | km/h                                                                                                                                                                                                                                                | 14.5/15              | 14.5/15     | 14.5/15     | 14.5/15     |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Lift Speed (Laden/Unladen)               | m/s                                                                                                                                                                                                                                                 | 0.320/0.440          | 0.290/0.440 | 0.320/0.440 | 0.290/0.400 |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Lowering Speed (Laden/Unladen)           | m/s                                                                                                                                                                                                                                                 | 0.400/0.400          | 0.400/0.400 | 0.360/0.400 | 0.360/0.400 |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Max. Drawbar Pull (Laden/Unladen)        | N                                                                                                                                                                                                                                                   | 10200/9700           | 10200/9800  | 13600/13800 | 14000/13800 |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Max. Gradeability (Laden/Unladen)        | %                                                                                                                                                                                                                                                   | 17/27                | 15/26       | 17/26       | 15/25       |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Acceleration Time/10 m (Laden/Unladen)   | s                                                                                                                                                                                                                                                   | 5.5/5.2              | 5.6/5.3     | 5.9/5.0     | 6.1/5.0     |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| BATTERY                                  |                                                                                                                                                                                                                                                     | TF15E                | TF18E       | TF20E       | TF25E       |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Battery voltage/Capacity (V/Ah)          | V/Ah                                                                                                                                                                                                                                                | 80/150               | 80/150      | 80/202      | 80/202      |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Battery weight (kg)                      | kg                                                                                                                                                                                                                                                  | 180                  | 180         | 190         | 190         |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| MOTOR & CONTROLLER                       |                                                                                                                                                                                                                                                     | TF15E                | TF18E       | TF20E       | TF25E       |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Driving motor powering (52-60min)        | kW                                                                                                                                                                                                                                                  | 8                    | 8           | 11          | 11          |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Lifting motor powering (53-15%)          | kW                                                                                                                                                                                                                                                  | 10.6                 | 10.6        | 12          | 12          |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Driving motor controlling mode           |                                                                                                                                                                                                                                                     | MOSFET/AC            |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Lifting motor controlling mode           |                                                                                                                                                                                                                                                     | MOSFET/AC            |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Service brake/Parking brake              |                                                                                                                                                                                                                                                     | Hydraulic/Mechanical |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Operating pressure for attachments (Mpa) | Mpa                                                                                                                                                                                                                                                 | 16                   |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| LITHIUM BATTERIES                        |                                                                                                                                                                                                                                                     | HELI                 |             |             |             |           |           | CATL      |           |           |           |           |           |           |           |          |           |           |           |
| BATTERY BRAND                            | HELI                                                                                                                                                                                                                                                |                      |             |             |             |           | CATL      |           |           |           |           |           |           |           |           |          |           |           |           |
| VOLTAGE/CAPACITY                         | 80V 125Ah                                                                                                                                                                                                                                           | 80V 150Ah            | 80V 202Ah   | 80V 250Ah   | 80V 280Ah   | 80V 404Ah | 80V 560Ah | 80V 125Ah | 80V 150Ah | 80V 173Ah | 80V 202Ah | 80V 228Ah | 80V 271Ah | 80V 302Ah | 80V 346Ah | 80V 404h | 80V 456Ah | 80V 542Ah | 80V 604Ah |
| 1.5-1.8t S                               | x                                                                                                                                                                                                                                                   | o                    | o           | o           | o           | -         | -         | o         | o         | o         | o         | o         | o         | o         | o         | -        | -         | -         | -         |
| 1.5-1.8t M                               | -                                                                                                                                                                                                                                                   | x                    | o           | o           | o           | -         | -         | -         | o         | o         | o         | o         | o         | o         | o         | -        | -         | -         | -         |
| 2t(X)S                                   | -                                                                                                                                                                                                                                                   | x                    | o           | o           | o           | -         | -         | -         | o         | o         | o         | o         | o         | o         | o         | -        | -         | -         | -         |
| 2-2.5t S                                 | -                                                                                                                                                                                                                                                   | x                    | o           | o           | o           | o         | -         | -         | o         | o         | o         | o         | o         | o         | o         | o        | -         | -         | -         |
| 2-2.5t M                                 | -                                                                                                                                                                                                                                                   | -                    | x           | o           | o           | o         | -         | -         | -         | -         | o         | o         | o         | o         | o         | o        | -         | -         | -         |
| 3-3.5t S                                 | -                                                                                                                                                                                                                                                   | -                    | x           | o           | o           | o         | o         | -         | -         | -         | o         | o         | o         | o         | o         | o        | o         | o         | o         |
| 3-3.5t M                                 | -                                                                                                                                                                                                                                                   | -                    | -           | x           | o           | o         | o         | -         | -         | -         | -         | -         | o         | o         | o         | o        | o         | o         | o         |
| 3.8 S                                    | -                                                                                                                                                                                                                                                   | -                    | -           | x           | o           | o         | o         | -         | -         | -         | -         | -         | o         | o         | o         | o        | o         | o         | o         |
| Heating At Low Temp                      | x                                                                                                                                                                                                                                                   |                      |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| CHARGER                                  |                                                                                                                                                                                                                                                     | D80V100AL-438        |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Model                                    | Three-phase four-wiring type                                                                                                                                                                                                                        |                      |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Wiring Type                              | Three-phase four-wiring type                                                                                                                                                                                                                        |                      |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Power of Charger                         | KVA                                                                                                                                                                                                                                                 | 10                   |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Air Switch Model of Upper Level Power    | A                                                                                                                                                                                                                                                   | 32                   |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Input Voltage Range                      | Vac                                                                                                                                                                                                                                                 | 380±15%              |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Input Current                            | A                                                                                                                                                                                                                                                   | <20                  |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Output Current                           | A                                                                                                                                                                                                                                                   | 5-100                |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Protection Level                         |                                                                                                                                                                                                                                                     | for indoor use       |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Workinh Ambient Temperature              | °C                                                                                                                                                                                                                                                  | -20±+45              |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Plugs and Sockets                        |                                                                                                                                                                                                                                                     | REMA320              |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |
| Charger                                  | full charging time=required charging capacity/charging current+0.2h<br>for example: the battery capacity is 80V/250Ah and the discharging state is alarmed by instrument. The charger is 100A, thus the full charging time is 250*0.9/100+0.2=2.45h |                      |             |             |             |           |           |           |           |           |           |           |           |           |           |          |           |           |           |

"x" standard | "o" optional | "-" non-configurable

# TECHNICAL DATA



**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, non standard 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



## LITHIUM BATTERY ADVANTAGES

- Uses mature, economical iron phosphate lithium battery cores and modules widely adopted in commercial vehicles, with a firm, lightweight aluminum alloy plate frame for optimal heat dissipation.
- Fast charging fills the battery in 2 hours, enabling gapless truck operation.
- Charging and discharging efficiency reaches 98%, with thermal runaway resistance above 600°C.
- Built-in heating function ensures reliable operation in low-temperature environments.
- Delivers 3,000+ charge cycles or 5 years of service life, retaining over 75% capacity – with zero maintenance required.
- No pollution and zero emissions.

# MAST PARAMETERS

## 2-stage standard Mast

| Mast Model | Max Lift Height (mm) | Load Capacity (kg) |           | Height Mast Lowered (mm) | Free Lift w/ Backrest (mm) | Service Weight (kg) |       | Tilt Angle $\alpha/\beta$ (°) |
|------------|----------------------|--------------------|-----------|--------------------------|----------------------------|---------------------|-------|-------------------------------|
|            |                      | 1.5 T              | 1.8 T     |                          |                            | 1.5 T               | 1.8 T |                               |
|            | 1.5-1.8 T            | 1.5 T              | 1.8 T     | 1.5-1.8 T                | 1.5-1.8 T                  | 1.5 T               | 1.8 T | 1.5-1.8 T                     |
| M200       | 2000                 | 1500               | 1800      | 1495                     | 155                        | 2791                | 2955  | 6/8                           |
| M250       | 2500                 | 1500               | 1800      | 1745                     | 155                        | 2823                | 2987  | 6/8                           |
| M300       | 3000                 | 1500               | 1800      | 1995                     | 155                        | 2855                | 3021  | 6/8                           |
| M330       | 3300                 | 1500               | 1800      | 2145                     | 155                        | 2874                | 3042  | 6/6                           |
| M350       | 3500                 | 1500               | 1800      | 2245                     | 155                        | 2887                | 3070  | 6/8                           |
| M370       | 3700                 | 1500               | 1800      | 2345                     | 155                        | 2900                | 3118  | 6/6                           |
| M400       | 4000                 | 1500               | 1800      | 2545                     | 155                        | 2948                | 3137  | 6/6                           |
| M425       | 4250                 | 1500               | 1800      | 2670                     | 155                        | 2965                | 3156  | 6/6                           |
| M450       | 4500                 | 1450               | 1650*1750 | 2795                     | 155                        | 2981                | 3190  | 6/6*6/8                       |
| M500       | 5000                 | 1200*1300          | 1400*1600 | 3045                     | 155                        | 3013                | 3251  | 6/6*6/6                       |
| M550       | 5500                 | 1000*1250          | 1100*1550 | 3345                     | 155                        | 3075                | 3285  | 3/6*3/6                       |
| M600       | 6000                 | 800*1200           | 900*1450  | 3595                     | 155                        | 3107                | 3222  | 3/6*3/6                       |

## 2-stage full free mast

| Mast Model | Max Lift Height (mm) | Load Capacity (kg) |           | Height Mast Lowered (mm) | Free Lift w/ Backrest (mm) | Service Weight (kg) |       | Tilt Angle $\alpha/\beta$ (°) |
|------------|----------------------|--------------------|-----------|--------------------------|----------------------------|---------------------|-------|-------------------------------|
|            |                      | 1.5 T              | 1.8 T     |                          |                            | 1.5 T               | 1.8 T |                               |
|            | 1.5-1.8 T            | 1.5 T              | 1.8 T     | 1.5-1.8 T                | 1.5-1.8 T                  | 1.5 T               | 1.8 T | 1.5-1.8 T                     |
| ZM200      | 2000                 | 1500               | 1800      | 1495                     | 485                        | 2840                | 2965  | 6/8                           |
| ZM250      | 2500                 | 1500               | 1800      | 1745                     | 735                        | 2872                | 2987  | 6/8                           |
| ZM300      | 3000                 | 1500               | 1800      | 1995                     | 985                        | 2906                | 3021  | 6/8                           |
| ZM330      | 3300                 | 1500               | 1800      | 2145                     | 1135                       | 2928                | 3042  | 6/8                           |
| ZM350      | 3500                 | 1500               | 1800      | 2245                     | 1235                       | 2943                | 3058  | 6/8                           |
| ZM370      | 3700                 | 1500               | 1800      | 2345                     | 1335                       | 2955                | 3070  | 6/6                           |
| ZM400      | 4000                 | 1500               | 1800      | 2545                     | 1535                       | 3002                | 3118  | 6/6                           |
| ZM425      | 4250                 | 1500               | 1800      | 2670                     | 1660                       | 3022                | 3137  | -                             |
| ZM450      | 4500                 | 1450               | 1650*1750 | 2765                     | 1785                       | 3041                | 3156  | -                             |
| ZM500      | 5000                 | 1200*1300          | 1400*1600 | 3045                     | 2035                       | 3075                | 3190  | -                             |
| ZM550      | 5500                 | 1000*1250          | 1100*1550 | 3345                     | 2385                       | 3136                | 3251  | -                             |
| ZM600      | 6000                 | 800*1200           | 900*1450  | 3595                     | 2585                       | 3170                | 3285  | -                             |

## 3-stage full free mast

| Mast Model | Max Lift Height (mm) | Load Capacity (kg) |           | Height Mast Lowered (mm) | Free Lift w/ Backrest (mm) | Service Weight (kg) |       | Tilt Angle $\alpha/\beta$ (°) |
|------------|----------------------|--------------------|-----------|--------------------------|----------------------------|---------------------|-------|-------------------------------|
|            |                      | 1.5 T              | 1.8 T     |                          |                            | 1.5 T               | 1.8 T |                               |
|            | 1.5-1.8 T            | 1.5 T              | 1.8 T     | 1.5-1.8 T                | 1.5-1.8 T                  | 1.5 T               | 1.8 T | 1.5-1.8 T                     |
| ZSM360     | 3600                 | 1500               | 1800      | 1790                     | 785                        | 2954                | 3069  | 6/6                           |
| ZSM400     | 4000                 | 1500               | 1800      | 1925                     | 920                        | 2978                | 3093  | 6/6                           |
| ZSM435     | 4350                 | 1450*1500          | 1700*1800 | 2040                     | 1035                       | 3003                | 3118  | 6/6                           |
| ZSM450     | 4500                 | 1450*1500          | 1650*1750 | 2090                     | 1085                       | 3014                | 3129  | 6/6                           |
| ZSM470     | 4700                 | 1400*1450          | 1600*1650 | 2160                     | 1155                       | 3010                | 3145  | 6/6                           |
| ZSM480     | 4800                 | 1350*1400          | 1550*1650 | 2190                     | 1185                       | 3037                | 3152  | 6/6                           |
| ZSM500     | 5000                 | 1200*1300          | 1400*1600 | 2290                     | 1285                       | 3058                | 3173  | 6/6                           |
| ZSM540     | 5400                 | 1000*1250          | 1100*1550 | 2415                     | 1410                       | 3084                | 3199  | 6/6                           |
| ZSM600     | 6000                 | 800*1200           | 900*1450  | 2640                     | 1635                       | 2855                | 3271  | 6/6                           |
| ZSM650     | 6500                 | *1100              | *1250     | 2840                     | -                          | 3194                | 3305  | -                             |
| ZSM700     | 7000                 | *900               | *950      | 3025                     | -                          | 3232                | 3347  | -                             |

# OPTIONAL ITEMS

|                                                                          | MODEL                                                |                     |
|--------------------------------------------------------------------------|------------------------------------------------------|---------------------|
| BASIC ITEMS                                                              | Pneumatic Tyre*                                      | ◇                   |
|                                                                          | Solid Tyre                                           | -                   |
|                                                                          | Single Tyre (front wheel)                            | ◇                   |
|                                                                          | Twin Tyre (front wheel)**                            | -                   |
|                                                                          | Two Piece Valve                                      | ◇                   |
|                                                                          | Three or Four Piece Valve                            | -                   |
|                                                                          | Basic Type (3M Lifting Height)                       | ◇                   |
|                                                                          | Other Type and Other Height Seriesmast***            | -                   |
|                                                                          | Standard Series Fork                                 | ◇                   |
|                                                                          | Non Standard Series Forks and Attachments            | -                   |
|                                                                          | Standard Exterior Color (blue grey + Tuboshu orange) | ◇                   |
|                                                                          | Other Exterior Colors (customized)                   | -                   |
|                                                                          | SAFETY ITEMS                                         | Turning Speed Limit |
| Reversing Armrest with Horn Switch                                       |                                                      | ◇                   |
| Overspeed 5km/h Alarm                                                    |                                                      | -                   |
| Overspeed 8km/h Alarm                                                    |                                                      | -                   |
| Overspeed 10km/h Alarm                                                   |                                                      | -                   |
| Travelling+Lifting+Tilting+Equipped with OPS Function (without lowering) |                                                      | ◇                   |
| Full Set of OPS Functions                                                |                                                      | -                   |
| Seatbelt Switch                                                          |                                                      | -                   |
| Multi-Way Valve Overload                                                 |                                                      | -                   |
| Dry Powder Fire Extinguisher (0.5kg)                                     |                                                      | -                   |
| Dry Powder Fire Extinguisher (2kg)                                       |                                                      | -                   |
| Carbon Dioxide Fire Extinguisher (2kg)                                   |                                                      | -                   |
| Reversing Buzzer                                                         |                                                      | ◇                   |
| Reversing Chinese Speaker                                                |                                                      | ◇                   |
| No Universal Key                                                         |                                                      | -                   |
| With Universal Key                                                       |                                                      | -                   |
| Electronic Lifting Upper Buffer                                          |                                                      | -                   |
| Central Wide-Angle Rearview Mirror                                       |                                                      | ◇                   |
| Both Side Rearview Mirror+ Centre Wide-Angle Rearview Mirror             |                                                      | -                   |
| Reversing Radar (4 Probes)                                               | -                                                    |                     |
| Reversing Image (1 Camera + 4 Radar Probes)                              | -                                                    |                     |
| COMFORT ITEMS                                                            | Semi Enclosed Seat                                   | ◇                   |
|                                                                          | Fully Suspended Seat                                 | -                   |
|                                                                          | Instrument Panel with 1 USB Interface (5V/1A)        | -                   |
|                                                                          | Steering Wheel Starts Steering                       | -                   |
|                                                                          | Synchronous Steering                                 | -                   |
|                                                                          | Steering Wheel with Handle Ball                      | ◇                   |
|                                                                          | Steering Wheel without Handle Ball                   | -                   |
| CAB/<br>WINDSHIELD/<br>AIR CONDITIONNER/<br>HEATER                       | Electric Fan                                         | -                   |
|                                                                          | Panel Mounted Cab (including fan & wiper)            | -                   |
|                                                                          | Heater                                               | -                   |
|                                                                          | Single Cooling Air Conditionner                      | -                   |
|                                                                          | Single Cooling Air Conditionner + Heater             | -                   |
|                                                                          | Font Windshield (including wiper)                    | -                   |
| NON STANDARD OVERHEAD GUARD                                              | Rear Windshield                                      | -                   |
|                                                                          | Top Windshield (excluding fan)                       | -                   |
| LIGHTS                                                                   | 50 mm Increased of Overhead Guard Height             | -                   |
|                                                                          | Overhead Guard (with protective net)                 | -                   |
|                                                                          | LED rear Work Light x1                               | -                   |
|                                                                          | Rear LED Red/Blue Spotlight x1                       | -                   |
|                                                                          | Rear & Lateral Red/Blue Bar Lights                   | -                   |
|                                                                          | Fixed LED Flashing Warning Light                     | ◇                   |
| OTHERS                                                                   | Fixed LED Rotary Warning Light                       | -                   |
|                                                                          | Fixed LED Rotary Buzzer Warning Light                | -                   |
|                                                                          | Metric Thread                                        | ◇                   |
|                                                                          | Tilt Cylinder Jacket                                 | -                   |
|                                                                          | Steering Cylinder Jacket                             | -                   |
|                                                                          | REMA Power Connector                                 | ◇                   |
|                                                                          | Domestic Battery                                     | ◇                   |
|                                                                          | GS Battery                                           | -                   |
| HOPPECKE Battery                                                         | -                                                    |                     |
| FAAM Battery                                                             | -                                                    |                     |
| Battery with Automatic Water Replenishment                               | -                                                    |                     |
| FICS Standard Type (for China)                                           | -                                                    |                     |

“◇” Standard “-” Optional | Some non standard options need to be customized.  
Please consult local sales personnel or product development technicians before purchasing.

# Intelligent Security

- Dual core controller
- OPS protection (standard driving OPS / optional hydraulic OPS)
- Hydraulic burst protection, forward tilting self-locking protection
- Electrical multiple protection (short circuit protection, overheat protection, low power protection, sequence protection)
- Parking safety reminder
- Reminder through slow sliding on ramp
- Turning automatic deceleration (optional)

# Convenient Maintenance

- Flexible battery charging mode (can be charged with the truck or replaced)
- Pump, pump motor, controller and other main electrical components are located on the counterweight, which is convenient for maintenance.
- Friendly interface

# HELI Smart Fleet Management System (Domestic Basic Edition)

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

