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CHL
MATERIALS HANDLING

EASE YOUR JOB

# 4-5.5 t

## Internal Combustion Counterbalanced Forklift Truck

IC

CPC(D) 40/45/50/55
QC13XK2 XC13XK2

CP(Q)YD 40/45/50
KU2XK2



# Embracing Timeless Classics Setting Sail on a Brand New Journey


SAFE AND RELIABLE 01~02

SMART AND COMFORTABLE 03~04

ECONOMIC AND ENERGY SAVING 05

CONVENIENT MAINTENANCE 06

# SAFE AND RELIABLE



Rain test



Intensified testing

**Test Validation**

The performance and body strength of the forklift have been verified through various tests including rain test and Intensified test




Frame-type upper crossbeam structure, with more reasonable stress distribution, enhances rigidity and strength

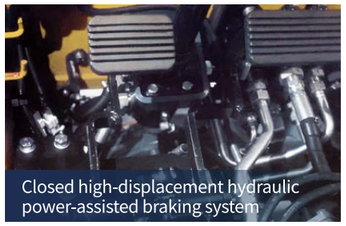


Standard air filter alarm reminds customers of maintenance and filter element replacement, protects the engine, and improves engine reliability



Standard steering cylinder protective sleeve. Cast steering hub is more reliable under harsh working conditions





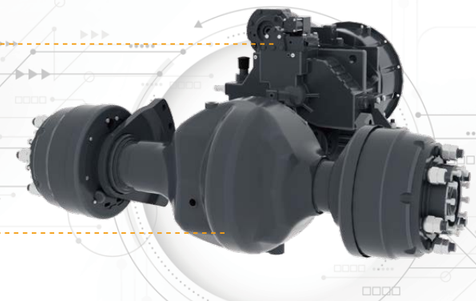
Closed high-displacement hydraulic power-assisted braking system



The whole truck standard LED lamps features longer service life and higher reliability

## Dry axle housing

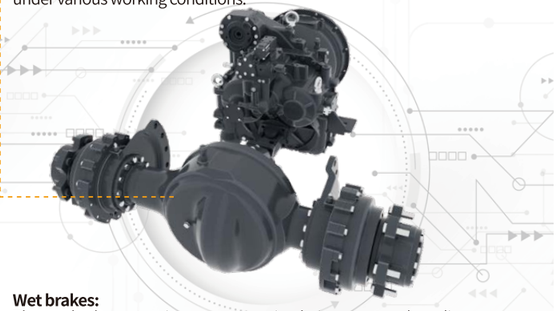
- **HELI's self-developed transmission** has undergone nearly 10 years of technological innovation and rigorous market validation.



- **Cast iron axle housing,** with a more reliable structure; standard drum brakes, and wet axle available as an option.

## Wet axle housing (optional)

- **HELI's self-developed wet axle** the integrated casting process, coupled with ultra-high durability and reliability, enables it to withstand high-frequency usageand long-duration operations, ensuring stable performance of the forklift under various working conditions.



**Wet brakes:**
The wet brake system incorporates a circulating water tank cooling system, ensuring that the gear oil temperature does not exceed limits during frequent braking conditions. This guarantees stable operation and extended service life of the wet brakes. It offers significant advantages in short-distance transportation and high-ambient temperature work environments such as ports and docks.



# SMART AND COMFORTABLE

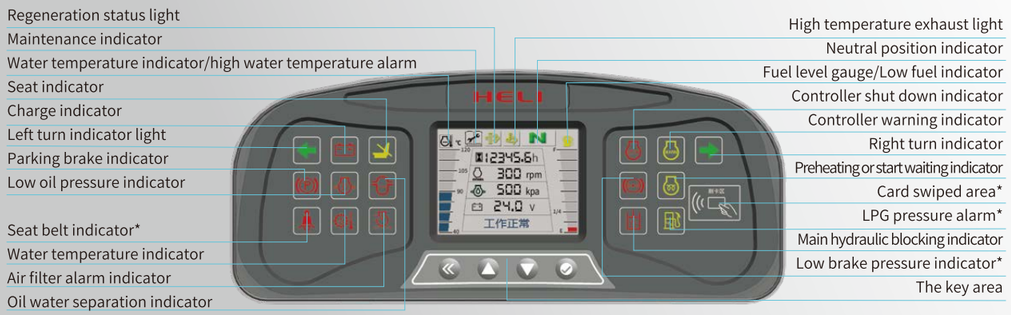
## Two-stages opening cabin door (optional)



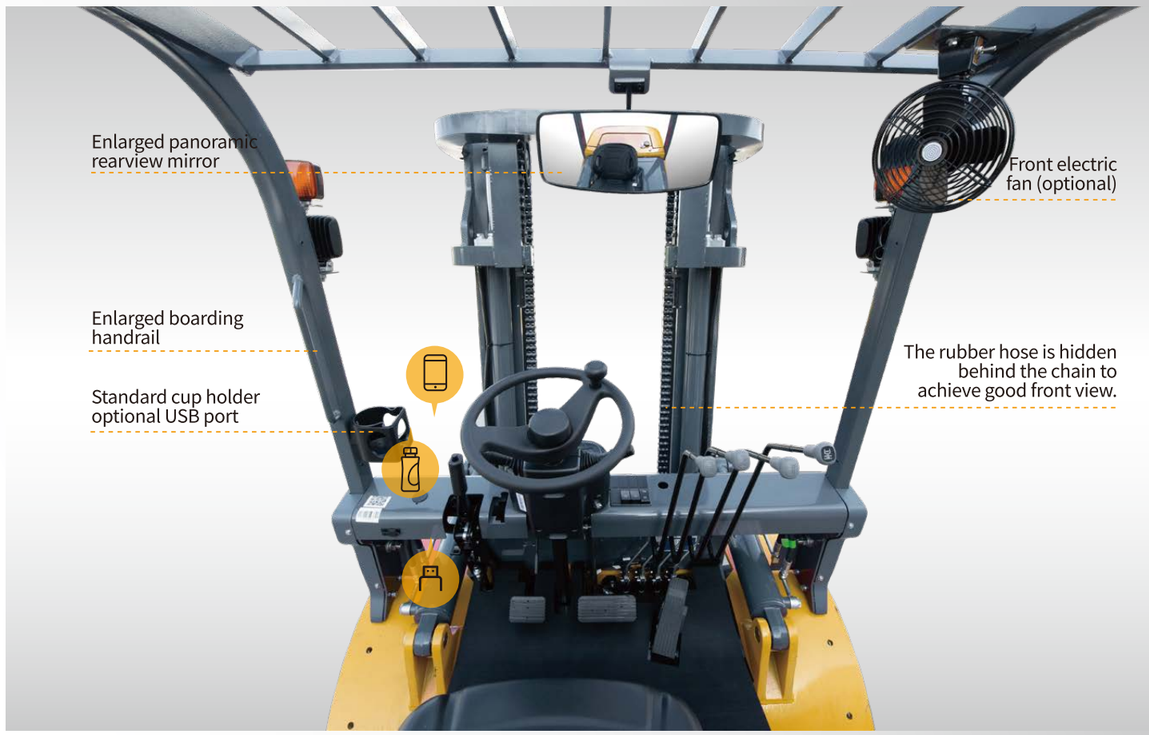





## RELIABLE SPECIAL DESIGNED INSTRUMENT




Reliable special meter displays the whole truck's working condition, error code and other important information completely which makes the operator master the whole truck condition directly and conveniently.
*:Some model options.

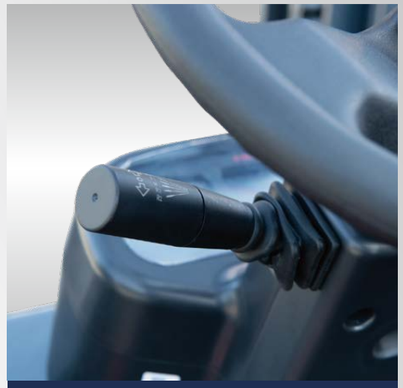




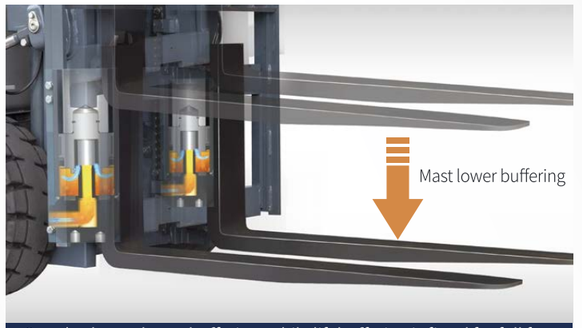

Ratchet type hand brake




Integrated light switch



Electro-hydraulic direction changing device (optional)

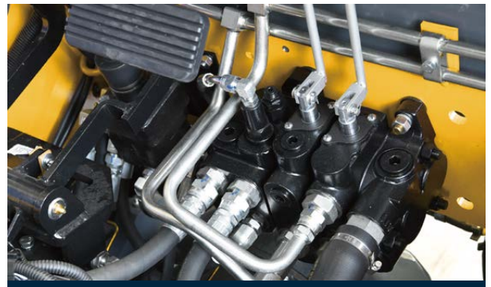



Standard mast lower buffering, while lift buffering is fitted for full free mast to achieve better operation experience

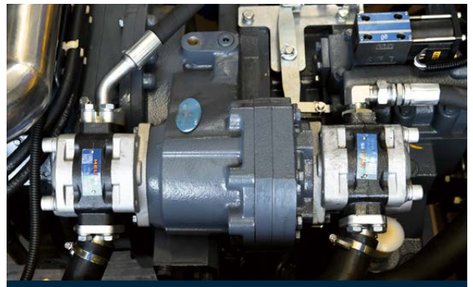


Standard semi-enclosed seat, which is more comfortable for drivers

# ECONOMIC AND ENERGY SAVING



Enlarging pipe diameter to decrease pressure loss



Dual-pump convergence to reduce energy consumption









The diesel filter and engine oil filter of the engine are placed in front for easy daily maintenance

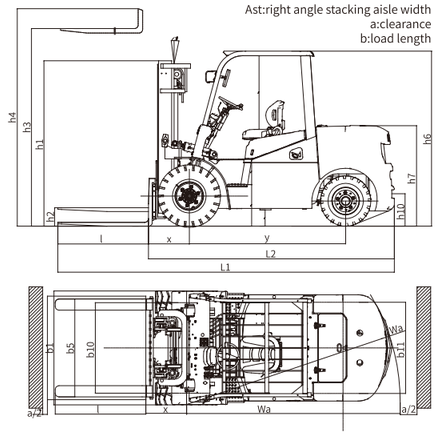



The counterweight cover has a large opening angle, which facilitates the inspection of the radiator

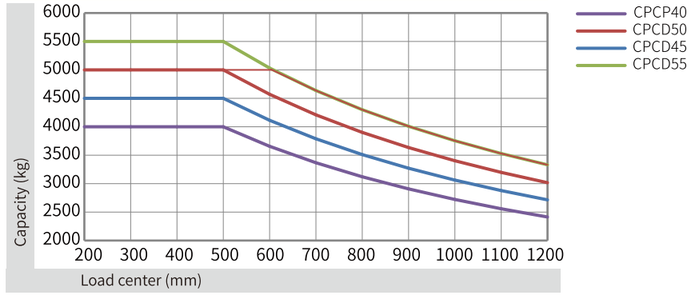
# CONVENIENT MAINTENANCE

## Manufacturer and Technical Data

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Manufacturer | | | CHL | | | | | | | | | | |
| | Model | | | CPC40 | CPCD40 | CP(Q)YD40 | CPC45 | CPCD45 | CP(Q)YD45 | CPC50 | CPCD50 | CP(Q)YD50 | CPC55 | CPCD55 |
| | Characteristics | | | | | | | | | | | | | |
| 1.01 | Rated capacity | | kg | 4000 | | | 4500 | | | 5000 | | | 5500 | |
| 1.02 | Load center distance | | mm | 500 | | | 500 | | | 500 | | 600 | 500 | |
| 1.03 | Power mode | | | Diesel | LPG | Gasoline | Diesel | LPG | Gasoline | Diesel | LPG | Gasoline | Diesel | Diesel |
| 1.04 | Driving mode | | | Seat-type | | | | | | | | | | |
| 1.05 | Front overhang | x | mm | 560 | | | | | | | | | | |
| 1.06 | Wheelbase | y | mm | 6290 | | | 2100 | | | | | | | |
| 1.07 | Weight | | kg | | 6460 | | 6490 | 6660 | | 6750 | 6920 | 7260 | 7130 | 7260 |
| | Dimension parameter | | | | | | | | | | | | | |
| 2.01 | Mast tilt angle (forward/backward) | α/β | ° | 6/12 | | | | | | | | | | |
| 2.02 | Height (mast lowered) | h1 | mm | 2225 | | | | | | | | 2275 | | |
| 2.03 | Free lifting height | h2 | mm | 155 | | | | | | | | | | |
| 2.04 | Lifting height (standard) | h3 | mm | 3000 | | | | | | | | | | |
| 2.05 | Max. height,extended (with backrest) | h4 | mm | 4240 | | | | | | | | 4390 | | |
| 2.06 | Height of overhead guard | h6 | mm | 2350 | | | | | | | | | | |
| 2.07 | Seat height relating to SIP (to ground) | h7 | mm | 1270 | | | | | | | | | | |
| 2.08 | Towing coupling height | h10 | mm | 295 | | | | | | | | | | |
| 2.09 | Ground clearance (between mast) | m1 | mm | 150 | | | | | | | | | | |
| 2.10 | Overall length (with fork) | L1 | mm | 4320 | | | 4320 | | | 4320 | | | 4520 | |
| 2.11 | Overall length (without fork) | L2 | mm | 3250 | | | | | | | | 3300 | | |
| 2.12 | Overall width | b1 | mm | 1530 | | | | | | | | | | |
| 2.13 | Distance across fork-arms, Max./Min. | b5 | mm | 300-1374 | | | | | | | | | | |
| 2.14 | Fork size:thickness x width x length | s/e/l | mm | 50x150x1070 | | | 50x150x1070 | | | 50x150x1070 | | | 55x150x1220 | |
| 2.15 | Tread, front | b10 | mm | 1230 | | | | | | | | | | |
| 2.16 | Tread, rear | b11 | mm | 1190 | | | | | | | | | | |
| 2.17 | Right angle stacking aisle width for pallet 1000 x1200mm crossways | Ast | mm | 4690 | | | | | | | | 4730 | | |
| 2.18 | Min. outside turning radius | Wa | mm | 2930 | | | | | | | | 2970 | | |
| | Tyres | | | | | | | | | | | | | |
| 3.01 | Wheels,number front/rear (x=driven wheels) | | | 2X/2 | | | | | | | | | | |
| 3.02 | Tyre type front/rear | | | Pneumatic-tyre | | | | | | | | | | |
| 3.03 | Tyre size,front | | | 8.25-15-14PR | | | 300-15-18PR | | | | | | | |
| 3.04 | Tyre size,rear | | | 7.00-12-14PR | | | | | | | | | | |
| 3.05 | Double-tyre size,front/rear | | | 8.25-15-14PR/7.00-12-14PR | | | | | | | | | | |
| | other | | | | | | | | | | | | | |
| 4.01 | Service brake | | | Vacuum assisted braking-pedal type (mechanical truck)/hydraulic assisted braking-pedal type(hydrodynamic truck) | | | | | | | | | | |
| 4.02 | Parking brake | | | Mechanical-hand lever | | | | | | | | | | |
| 4.03 | Operating pressure for attachments | | mpa | 20.5 | | | | | | 23.5 | | | | |
| 4.04 | Fuel tank capacity | | L | 120 | | | | | | | | | | |




### Load Curve




Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load.The standard load means a cubic with 1200mm edge length.When mast is tilted forward,using non-standard forks or loading large goods, the load capacity will be reduced.The load capacity of standard mast at different load center can be known from this load chart.

## Performance parameters

| Model | | CPCD40/45/50/55 | CP (Q) YD40 | CP (Q) YD45 | CP (Q) YD50 | CP (Q) YD50 |
|---|---|---|---|---|---|---|
| Configuration number | | QC7XK2/M4XK2 | KU2XK2/KUXK2 | | | |
| Transmission geers (front/rear) | | Forward 2 backward 1 | | | | |
| Travel speed (laden/unladen) | km/h | 24/25 | | | | |
| Lift speed (laden/unladen) | mm/s | 530/560 | | | | |
| Max.drawbar pull (laden/unladen) | kN | 33 | | | | |
| Max.gradeability (laden/unladen) | % | 26/20 | | | | |

## Optional engine model and truck main specifications

| Engine model | Truck model | Rated power/speed(Kw/rpm) | Rated torque/speed(Nm/rpm) | Engine displacement(L) | Engine cylinder number-cylinder borexstroke | Emission standard |
|---|---|---|---|---|---|---|
| Quanchai 4C6-88C41 | CPCD40/45/50/55-QC7XK2 | 65/2200 | 350/1800 | 3.47 | 4-98X115 | China III |
| Mitsubishi S6S | CPCD40/45/50/55-M4XK2 | 52/2300 | 248/1700 | 4.996 | 6-94X115 | China III/Euro IIIA |
| KUBOTA WG3800 | CPYD40/45-KUXK2/CPYD50-KUXK2-06 | 54.6/2400 | 271/1200 | 3.77 | 4-100X120 | Certification type |
| KUBOTA WG3800 | CPQYD40/45-KUXK2/CPQYD50-KUXK2-06 | 54.6/2400 | 271 (LPG) /1200<br>247(GAS)/1400 | 3.77 | 4-100X120 | Certification type |
| KUBOTA WG3800 | CPYD40/45-KU2XK2/CPYD50-KU2XK2-06 | 63.2/2400 | 282/1200 | 3.77 | 4-100X120 | Non certified type |
| KUBOTA WG3800 | CPQYD40/45-KU2XK2/CPQYD50-KU2XK2-06 | 59.9(LPG)/2400<br>56.8(GAS)/2400 | 271 (LPG) /1200<br>247(GAS)/1400 | 3.77 | 4-100X120 | Non certified type |

## Mast parameters

| Mast type | Mast model | Max.lifting height (mm) | Load capacity (lode center 500mm)(kg) | | | | Height (mast lowered)(mm) | | Free lift height (with backrest) (mm) | | Service weight (kg) | | | | Mast tilt angle α/β(°) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CPCD40 | CPCD45 | CPCD50 | CPCD55 | CPCD40/45/50 | CPCD55 | CPCD40/45/50 | CPCD55 | CPCD40 | CPCD45 | CPCD50 | CPCD55 | |
| Wide View Standard Mast | M250 | 2500 | 4000 | 4500 | 5000 | 5500 | 1975 | 2025 | 150 | 155 | 6125 | 6435 | 6845 | 7195 | 6°/12° |
| | M275 | 2750 | 4000 | 4500 | 5000 | 5500 | 2115 | 2165 | 150 | 155 | 6175 | 6485 | 6895 | 7230 | 6°/12° |
| | M300 | 3000 | 4000 | 4500 | 5000 | 5500 | 2225 | 2275 | 150 | 155 | 6200 | 6510 | 6920 | 7260 | 6°/12° |
| | M330 | 3300 | 4000 | 4500 | 5000 | 5500 | 2375 | 2425 | 150 | 155 | 6235 | 6545 | 6955 | 7300 | 6°/12° |
| | M350 | 3500 | 4000 | 4500 | 5000 | 5500 | 2475 | 2525 | 150 | 155 | 6260 | 6570 | 6980 | 7325 | 6°/12° |
| | M370 | 3700 | 4000 | 4500 | 5000 | 5500 | 2575 | 2625 | 150 | 155 | 6280 | 6590 | 7000 | 7350 | 6°/12° |
| | M400 | 4000 | 4000 | 4500 | 5000 | 5500 | 2825 | 2825 | 150 | 155 | 6405 | 6715 | 7125 | 7465 | 6°/6° |
| | M425 | 4250 | 4000 | 4500 | 5000 | 5500 | 2950 | 2950 | 150 | 155 | 6435 | 6745 | 7155 | 7500 | 6°/6° |
| | M450 | 4500 | *3800<br>*4000 | *4300<br>*4500 | *4700<br>*5000 | *5200<br>*5500 | 3075 | 3075 | 150 | 155 | 6460 | 6770 | 7180 | 7530 | 6°/6° |
| | M475 | 4750 | *3700<br>*4000 | *4200<br>*4500 | *4500<br>*5000 | *5000<br>*5500 | 3200 | 3200 | 150 | 155 | 6490 | 6800 | 7210 | 7565 | 6°/6° |
| | M500 | 5000 | *3500<br>*3700 | *4000<br>*4200 | *4250<br>*4600 | *4500<br>*5000 | 3325 | 3325 | 150 | 155 | 6520 | 6830 | 7240 | 7595 | 6°/6° |
| | M550 | 5500 | *3200<br>*3400 | *3600<br>*4000 | *4000<br>*4200 | *4200<br>*4500 | 3625 | 3625 | 150 | 155 | 6590 | 6900 | 7310 | 7670 | 6°/6° |
| | M600 | 6000 | *3200 | *3600 | *3800 | *4000 | 3875 | 3875 | 150 | 155 | 6645 | 6955 | 7365 | 7735 | 6°/6° |
| Full Free 2-Stage Mast | ZM250 | 2500 | 4000 | 4500 | 5000 | 5500 | 1990 | 1990 | 780 | 630 | 6215 | 6525 | 6935 | 7315 | 6°/12° |
| | ZM275 | 2750 | 4000 | 4500 | 5000 | 5500 | 2130 | 2130 | 920 | 770 | 6260 | 6570 | 6980 | 7355 | 6°/12° |
| | ZM300 | 3000 | 4000 | 4500 | 5000 | 5500 | 2240 | 2240 | 1030 | 880 | 6285 | 6595 | 7005 | 7390 | 6°/12° |
| | ZM330 | 3300 | 4000 | 4500 | 5000 | 5500 | 2390 | 2390 | 1180 | 1030 | 6330 | 6640 | 7050 | 7435 | 6°/12° |
| | ZM350 | 3500 | 4000 | 4500 | 5000 | 5500 | 2490 | 2490 | 1280 | 1130 | 6355 | 6665 | 7075 | 7465 | 6°/12° |
| | ZM370 | 3700 | 4000 | 4500 | 5000 | 5500 | 2590 | 2590 | 1380 | 1230 | 6385 | 6695 | 7105 | 7495 | 6°/12° |
| | ZM400 | 4000 | 4000 | 4500 | 5000 | 5500 | 2790 | 2790 | 1580 | 1430 | 6505 | 6815 | 7225 | 7620 | 6°/6° |
| Full Free 3-Stage Mast | ZSM360 | 3600 | *3800<br>*4000 | *4250<br>*4500 | *4800<br>*5000 | *5300<br>*5500 | 1940 | 1990 | 730 | 630 | 6535 | 6845 | 7255 | 7660 | 6°/6° |
| | ZSM400 | 4000 | *3800<br>*4000 | *4350<br>*4500 | *4800<br>*5000 | *5300<br>*5500 | 2080 | 2130 | 870 | 770 | 6590 | 6900 | 7310 | 7715 | 6°/6° |
| | ZSM435 | 4350 | *3800<br>*4000 | *4250<br>*4500 | *4800<br>*5000 | *5300<br>*5500 | 2190 | 2240 | 980 | 880 | 6630 | 6940 | 7350 | 7760 | 6°/6° |
| | ZSM450 | 4500 | *3800<br>*4000 | *4350<br>*4500 | *4800<br>*5000 | *5300<br>*5500 | 2240 | 2290 | 1030 | 930 | 6655 | 6965 | 7375 | 7785 | 6°/6° |
| | ZSM470 | 4700 | *3500<br>*3800 | *4000<br>*4200 | *4500<br>*4800 | *5000<br>*5200 | 2305 | 2355 | 1095 | 995 | 6695 | 7005 | 7415 | 7810 | 6°/6° |
| | ZSM500 | 5000 | *3500<br>*3800 | *4000<br>*4200 | *4500<br>*4800 | *4800<br>*5200 | 2440 | 2490 | 1230 | 1130 | 6735 | 7045 | 7455 | 7865 | 6°/6° |
| | ZSM540 | 5400 | *3250<br>*3400 | *3400<br>*3700 | *3800<br>*4200 | *4200<br>*4500 | 2590 | 2640 | 1380 | 1280 | 6795 | 7105 | 7515 | 7925 | 6°/6° |
| | ZSM600 | 6000 | *3200 | *3400 | *3800 | *4000 | 2790 | 2840 | 1580 | 1480 | 6940 | 7250 | 7660 | 8075 | 6°/6° |
| | ZSM650 | 6500 | *2500 | *2800 | *3200 | *3500 | 2990 | 3040 | 1780 | 1680 | 7015 | 7325 | 7735 | 8150 | 3°/3° |
| | ZSM700 | 7000 | *1800 | *2000 | *2500 | *2800 | 3165 | 3215 | 1955 | 1855 | 7080 | 7390 | 7800 | 8215 | 3°/3° |

Note:*stands for the rated capacity when the front tyre is double-tyre. 4-5t Free lifting height(without backrest)+425mm. 5t Free lifting height(without backrest)+525mm.

## Configuration

| | Configuration | General forklift |
|---|---|---|
| Packaging method | HELI packing | ● |
| | Neutral packing | ○ |
| Economic and energy saving | Load sense steering | ● |
| | Double pump confluence | ● |
| | Vacuum-assisted braking(mechanical truck) | ● |
| Intelligent security | Hydraulic power braking(hydrodynamic truck) | ● |
| | Tilting cylinder with self-locking valve | ● |
| | Reversing buzzer | ● |
| | Reversing voice horn | ○ |
| | Reverse radar and camera | ○ |
| | Overspeed alarm(10km/h) | ○ |
| | Overspeed alarm (speed limit value adjustable) | ○ |
| | OPS (only for driving) | ○ |
| | OPS (Driving and lifting) | ○ |
| | Electric power switch | ○ |
| | Engine oil pressure alarm | ● |
| | Oil water separator indicator | ● |
| | Charging indicator | ● |
| | Water temperature gauge | ● |
| | Neutral start switch | ● |
| | Fire extinguisher | ○ |
| | Spark arrester | ○ |
| | Fuel cap with lock | ○ |
| | Engine hood locking device | ○ |
| Reliability | Drum brake drive axle | ● |
| | Wet-type brake drive axle (mandatory cooling) | ○ |
| | Auxiliary tank | ○ |
| | Double filter element air filter(with pressure alarm) | ● |
| | Dry-type double air filter | ○ |
| | Self discharging ash filter | ○ |
| Comfortable and convenient | Mechanical reversing | ● |
| | intelligent gear shift | ○ |
| | Steering wheel with knob (HELI packing) | ● |
| | Steering wheel without knob (HELI packing) | ○ |
| | Full hydraulic power steering | ● |
| | Mast rear cylinder with lower buffering | ● |
| | Speed limiting valve for lifting oil circuit | ● |
| | Man-machine interactive liquid crystal instrument | ● |
| | Fan | ○ |
| | Teacup holder | ● |
| | USB interface | ○ |
| | Rear view mirrors at both sides | ○ |
| | Get on/off handle | ● |
| | Half enclosed seat | ● |
| | HEAN full suspension seat | ○ |
| | Grammer full suspension seat | ○ |
| | Rear toolbox | ○ |

| | Configuration | General forklift |
|---|---|---|
| Top frame options | Standard overhead guard | ● |
| | Low height overhead guard2230mm(120mm lower) | ○ |
| Cab/ wind shield | Front windshield (with wiper) | ○ |
| | Front heat-resistant windshield (with wiper) | ○ |
| | Rear windshield (without wiper) | ○ |
| | Glass ceiling | ○ |
| | PC Endurance Board Ceiling | ○ |
| | Panel mounted cab | ○ |
| | Single cooling air conditioner | ○ |
| | Cold and warm air conditioner | ○ |
| | Heater | ○ |
| Lifting system | Basic wide view mast with 3m | ● |
| | The other lifting heights of basic wide view mast | ○ |
| | Two stages full free wide view mast | ○ |
| | Three stages full free wide view mast | ○ |
| | Non standard fork and attachment | ○ |
| Lights | LED lamps for whole truck | ● |
| | LED rear working lights | ○ |
| | Rear side of blue light | ○ |
| | Three sides of blue strip light | ○ |
| | Three sides of red strip light | ○ |
| | LED flashingwarninglight (assembly type) | ○ |
| | LED rotary warning light (assembly type) | ○ |
| | LED rotary buzzerlight (assembly type) | ○ |
| Tyre | Pneumatic tyre | ● |
| | Solid tyre | ○ |
| | Traceless solid tire | ○ |
| Others | Metric thread | ● |
| | Middle exhaust | ● |
| | High exhaust | ○ |
| | Counterweight with protective net | ○ |
| | Counterweight and mast sling | ○ |
| | Reinforced rollers | ○ |
| | Steering cylinder sleeve | ● |
| | Tilting cylinder sleeve | ○ |
| | No universal Key | ● |
| | Universal keys (4 pieces) | ○ |
| | Traction device | ● |
| | Driver's tool kits | ● |
| | Customized color | ○ |

Note：●Standard；○Optional