

Configuration	
Parts	High configuration
Intelligent shifting transmission box	<input checked="" type="radio"/>
Wet type brake drive axle	<input type="radio"/>
Hydraulic service brake	<input checked="" type="radio"/>
OPS	<input checked="" type="radio"/>
Smart safety parts	<input checked="" type="radio"/>
Self lock valve of tilting cylinder	<input checked="" type="radio"/>
FICS	<input type="radio"/>
9 inches cyclone air filter with dual cores (with pressure alarm)	<input checked="" type="radio"/>
Power switch	<input checked="" type="radio"/>
Oil tank with lock	<input checked="" type="radio"/>
Fire extinguisher (2kg)	<input type="radio"/>
Comfortable parts	<input type="radio"/>
Full suspension seat	<input type="radio"/>
Lowering buffering for rear lifting cylinder, upper buffering for front lifting cylinder	<input checked="" type="radio"/>
Adjustable steering column	<input checked="" type="radio"/>
Reversing handle with integrated horn	<input checked="" type="radio"/>
USB interface	<input checked="" type="radio"/>
Instrument identification (card swipe or password for start)	<input type="radio"/>
Fan	<input type="radio"/>
Reversing speaker	<input type="radio"/>
Environment friendly parts	<input type="radio"/>
Meet the latest emission requirements(EU)	<input checked="" type="radio"/>
Load sensing steering	<input checked="" type="radio"/>
LCD instrument	<input checked="" type="radio"/>

Note: “●” standard; “○” optional; “—” non-configuration

Configuration	
Parts	High configuration
Front windshield (with wiper)	<input type="radio"/>
Rear windshield	<input type="radio"/>
Cab	<input type="radio"/>
Panel mounted cab	<input type="radio"/>
Panel mounted cab (with heater)	<input type="radio"/>
Panel mounted cab (with heater and air conditioner for cooling)	<input type="radio"/>
Panel mounted cab (with air conditioner for cooling)	<input type="radio"/>
Panel mounted cab (with air conditioner)	<input type="radio"/>
Lights	<input checked="" type="radio"/>
LED lights for whole truck	<input checked="" type="radio"/>
LED rear working lights (2)	<input type="radio"/>
Warning light (rotating)	<input type="radio"/>
Warning light (rotating and buzzer)	<input type="radio"/>
Blue light	<input type="radio"/>
Lifting system	<input checked="" type="radio"/>
Normal mast	<input checked="" type="radio"/>
Full free mast (two stage or three stage)	<input type="radio"/>
Non-standard attachment	<input type="radio"/>
Mast height	<input type="radio"/>
Hydraulic fork positioner (8.5-10t)	<input checked="" type="radio"/>
Fork carrier (5-7t)	<input checked="" type="radio"/>
Backrest (5-7t)	<input checked="" type="radio"/>
Sharp type fork	<input type="radio"/>
Winder fork carrier	<input type="radio"/>
Others	<input checked="" type="radio"/>
Metric thread	<input checked="" type="radio"/>
American thread	<input type="radio"/>
Solid tyre	<input type="radio"/>
Traceless solid tyre	<input type="radio"/>
Sleeve for tilting cylinder	<input checked="" type="radio"/>
Sleeve for steering cylinder	<input checked="" type="radio"/>
Universal key	<input type="radio"/>
Customer made color	<input type="radio"/>



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



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CPCD 50/60/70 /85/100 CU1G3/YC2G3



5-10 t

G3 series Internal Combustion
Counterbalanced Forklift Truck

HELI



**Our power and confidence are from
reliable high quality products.**

Elegance in appearance, excellent in performance

Ecology and saving

The Euro V power engine is equipped with DOC+DPF+SCR post-treatment technology meeting the most stringent emission standards.



CUMMINS QSF3.8 Euro V/T4F



YUCHAI YCA05115-S500 (optional)

A reliable drive system

The transmission box designed and manufactured by HELI specially for the model is equipped on the truck. As reliable transmission system produced by HELI, it has been validated by over twenty years experience in the world market. Meanwhile, various ancillary devices of the power system ensure the reliability effectively.



Through LCD instrument and good human-computer interaction, the operator can monitor the truck status in real time.



HELI smart fleet management system (optional)	
Vehicle positioning	Vehicle management
Remote diagnosis	Identification recognition (optional)
Remote monitoring	Weight management (optional)
Maintenance reminder	Collision management (optional)
Statistical form	



Option configuration of intelligent safety buffer system cushion operator from effects of riding over uneven surface and it is more comfortable.

• Vibration shock reduction

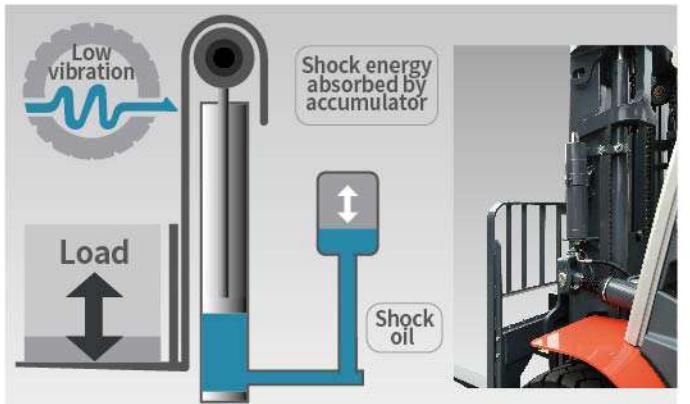
When driving under load conditions, the impact caused by uneven surface is greatly absorbed, and the vibration is effectively reduced.

• Vibration and noise reduction

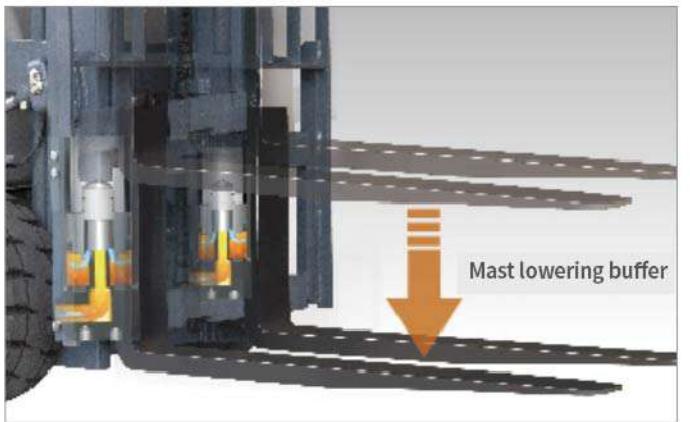
When driving under load condition, the impact noise caused by uneven surface is greatly reduced.

• Reduced driving fatigue

During the emergency stop operation during the load lowering process, the vibration and driving fatigue caused by inertia impact can be effectively reduced, and the driving safety can be improved.



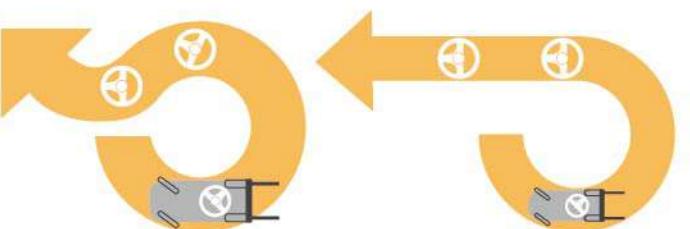
Standard configuration of oil cylinder lower buffer, comfortable operation



Multi system joint optimization design (active noise reduction of engine, transmission box, axle and hydraulic oil pump, application of sealing sound insulation materials of the whole truck) reduces truck noise.



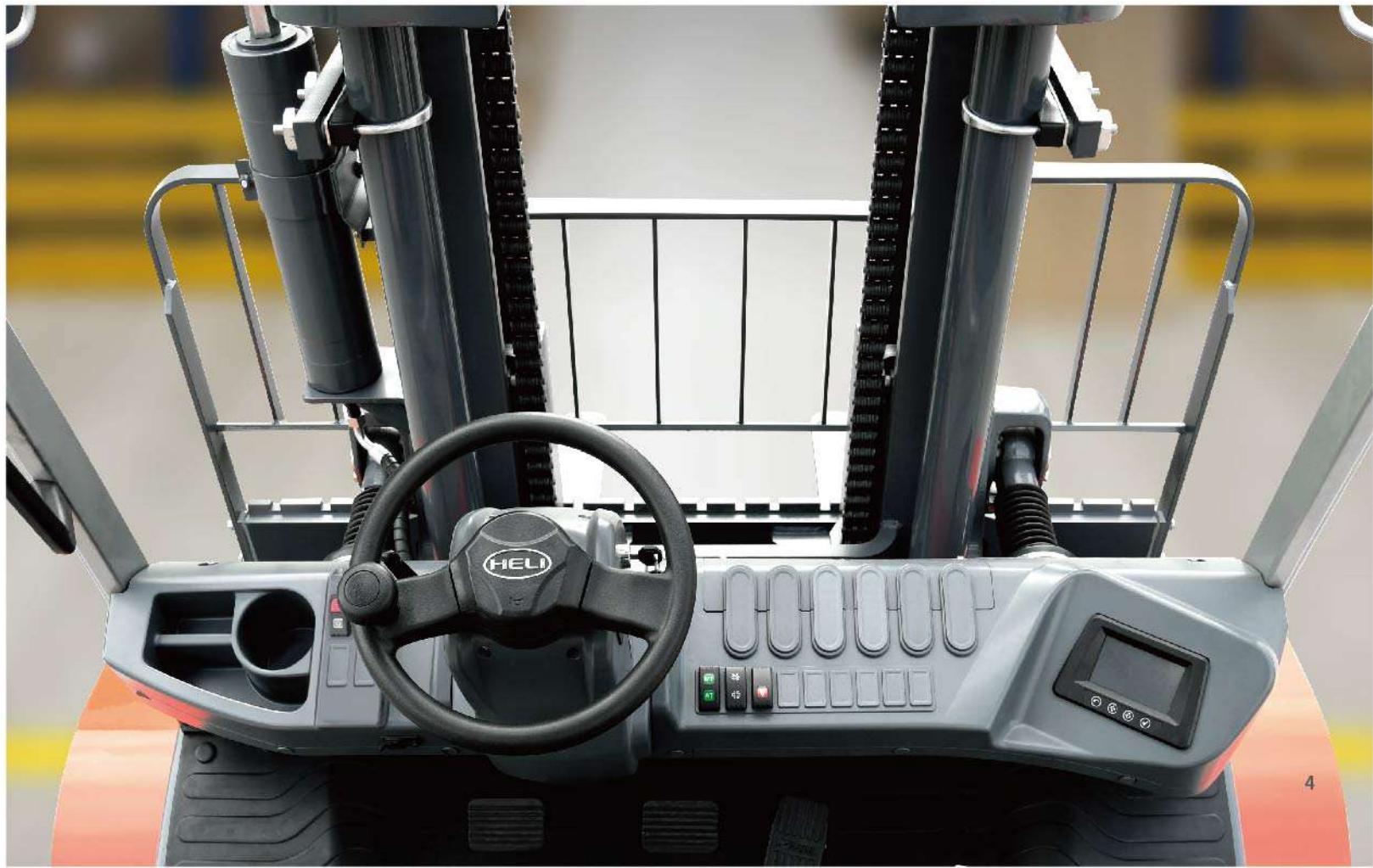
Hydraulic synchronous steering system can adjust steering wheel and wheel angle offset smartly and offers accurate steering and comfortable driving; (optional)



Rachet type parking brake



It contains semi-enclosed normal seat, and adopts the techniques which are weight stepless adjustment and shock absorption, and vacuum cold foam molding. Seat armrest and backrest is a whole. Contact switch is optional.



High efficient and safe

Smart protection on gearbox and engine ensure the safety of the whole truck.



Smart protection on high engine water temperature, low oil pressure, intake pressure and temperature

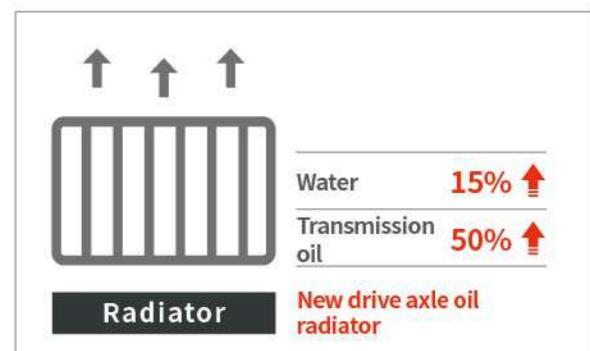
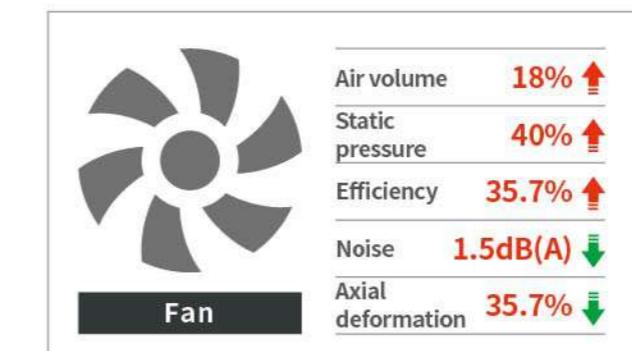
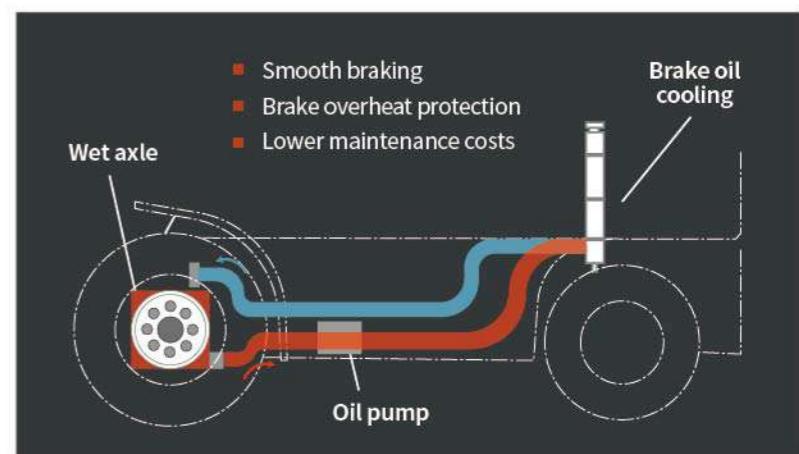
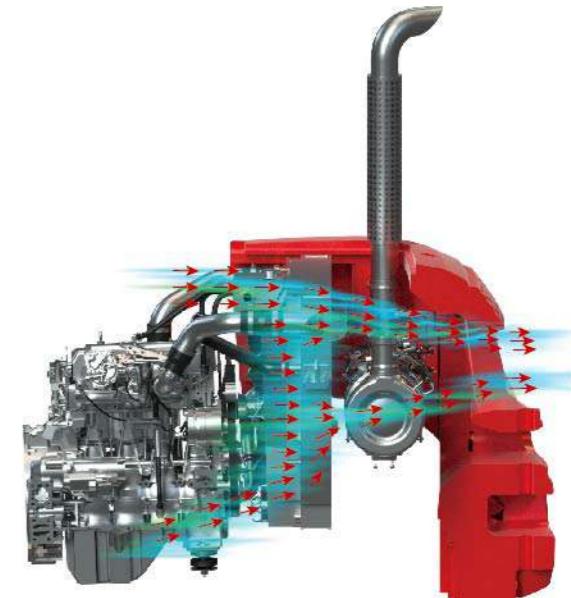
- Operator present system (after the driver leaves the seat accidentally, walking and lifting function of the whole truck is terminated) prevents the potential safety hazards caused by misoperation;
- When parking brake works, truck travel function is prohibited and thus the safety of driving operation is improved;
- Start protection function, fingertip operation system and anti-restart protection function from non-neutral gear ensure operation safety;
- The truck is equipped with large capacity air filter with safety filter element and pressure alarm function;
- The optimal design of power suspension increases the limit of limit impact to protect the power assembly from accidental impact;
- Truck safety warning: reverse image system, warning light, etc. (optional)



Reliable quality

HELI has been committed to the research of truck reliability for many years, and the core parts have been verified by the market for a long time. The truck goes through high standard reliability test before marketing, long-time quality tracking and verification after marketing, and strict control of various performance indicators.

- The CAE forward design improves the strength of structural parts;
- Wet braking with forced oil cooling radiator ensures the stability and reliability of braking performance under extreme conditions;
- High performance cooling system ensures the heat dissipation performance of the whole truck.



Note: the above data are from the comparison with G series 7t internal combustion forklift truck

Harsh truck key parts endurance reliability test ensures the long-term reliability of core parts.



Higher standard endurance reliability test and high-intensity industrial verification of the whole truck ensures the reliability of long-term use of the whole truck;



Efficient and convenient maintenance

Super long maintenance cycle of core parts



2000-hour maintenance cycle of transmission box



100-hour maintenance cycle of wet axle



Over 5000-hour service life of core parts

Integrated electrical cabinet and embedded instrument make disassembly and maintenance easy;



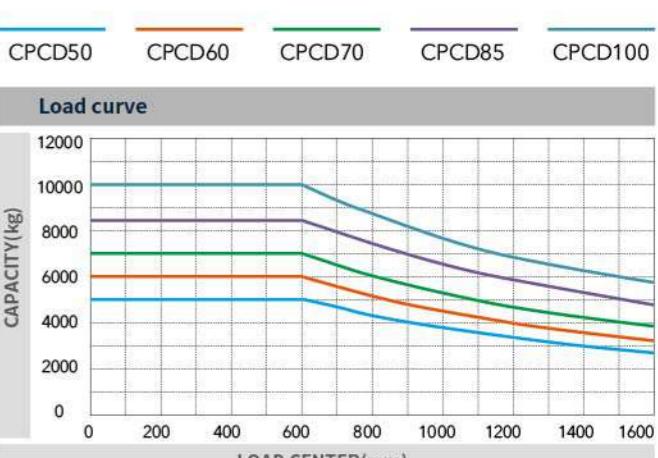
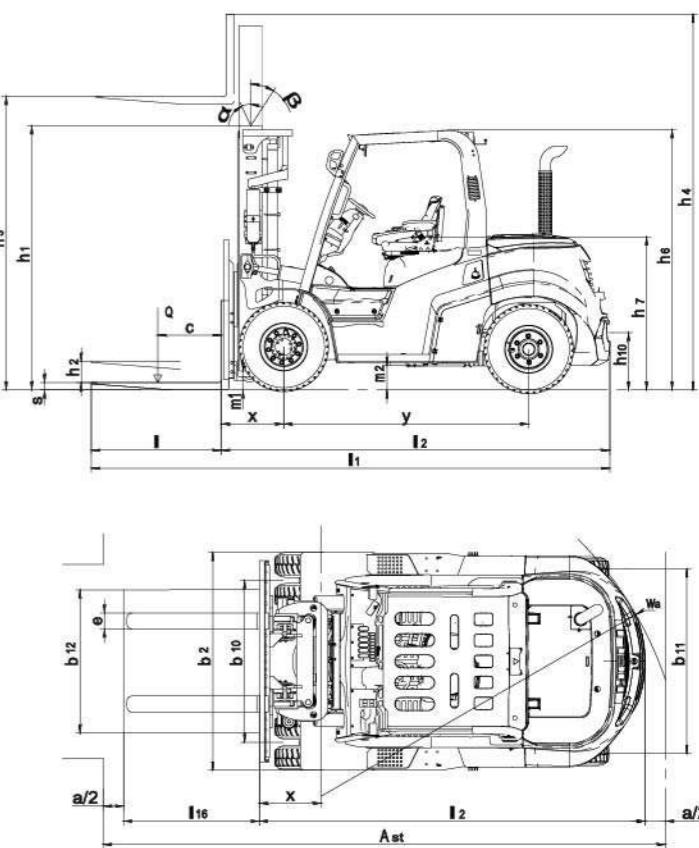
Timely remind maintenance information is given through instrument;

Large opening angle hood and detachable front and rear floor make check and repair easier;



Manufacturer and Technical Data										
Characteristics										
1.01 Manufacturer										
1.02 Model										
1.03 Configuration number										
1.04 Rated capacity										
1.05 Load center distance										
1.06 Power mode										
1.07 Driving mode										
1.08 Front overhang										
1.09 Wheelbase										
Weight										
2.01 Total weight										
2.02 Axle load (laden,front/rear)										
2.03 Axle load (unladen,front/rear)										
Tyres										
3.01 Tyre type										
3.02 Tyre size,front										
3.03 Tyre size,rear										
3.04 Wheels,number front/rear (x=driven wheels)										
3.05 Tread, front										
3.06 Tread, rear										
Dimensions										
4.01 Mast tilt angle (forward/backward)										
4.02 Height (mast lowered)										
4.03 Free lifting height										
4.04 Lifting height (standard)										
4.05 Max. height,extended (with backrest)										
4.06 Height of overhead guard										
4.07 Seat height relating to SIP (to ground)										
4.08 Towing coupling height										
4.09 Overall length (with fork)										
4.10 Overall length (without fork)										
4.11 Overall width										
4.12 Fork size:thickness x width x length										
4.13 Fork carriage,according to ISO2328										
4.14 Distance across fork-arms, Max./Min.										
4.15 Ground clearance (laden,between mast)										
4.16 Ground clearance (center of wheelbase)										
4.17 Right angle stacking aisle width for pallet 1000 x1200mm crossways										
4.18 Right angle stacking aisle width for pallet 800 x1200mm lengthways										
4.19 Min. outside turning radius										
Performance Data										
5.01 Travel speed (laden/unladen)										
5.02 Lift speed (laden/unladen)										
5.03 Lowering speed										
5.04 Max.drawbar pull										
5.05 Max.gradeability (laden/unladen)										
Combustion-engine										
6.01 Engine manufacturer/Moel										
6.02 Rated power/Speed										
6.03 Max. torque/Speed										
6.04 Cylinder number-bore x stroke										
6.05 Engine displacement										
6.06 Emission										
Addition data										
7.01 Service brake/Parking brake										
7.02 Operating pressure for attachments										
7.03 Transmission gears (front/rear)										
7.04 Fuel tank capacity										

Ast: Right angle stacking aisle width
a: Clearance
l: Load Length



5-7t Wide View Standard Mast

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)(Kg)			Mast height lowered(mm)	Service weight(kg)			Mast tilting angle (°)α/β
		CPCD50	CPCD60	CPCD70		CPCD50	CPCD60	CPCD70	
M200	2000	5000	6000	7000	2080	8325	8855	9769	6°/12°
M250	2500	5000	6000	7000	2230	8389	8919	9791	6°/12°
M270	2700	5000	6000	7000	2330	8421	8951	9811	6°/12°
M300	3000	5000	6000	7000	2480	8470	9000	9860	6°/12°
M330	3300	5000	6000	7000	2630	8519	9049	9909	6°/12°
M350	3500	5000	6000	7000	2730	8551	9081	9941	6°/12°
M375	3750	5000	6000	7000	2855	8592	9122	9982	6°/12°
M400	4000	5000	6000	7000	3030	8758	9288	10148	6°/12°
M425	4250	5000	6000	7000	3155	8798	9328	10188	6°/12°
M450	4500	5000	6000	7000	3280	8839	9369	10229	6°/12°
M475	4750	5000	6000	7000	3405	8880	9410	10270	6°/6°
M500	5000	5000	6000	7000	3530	8920	9450	10310	6°/6°
M550	5500	4750	5700	6600	3830	9114	9644	10504	6°/6°
M600	6000	4400	5400	6400	4080	9196	9726	10586	6°/6°

5-7t Wide View Full Free 2-Stage Mast

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)(Kg)			Mast height lowered(mm)	Free lift (with backrest) (mm)	Service weight(kg)			Mast tilting angle (°)α/β
		CPCD50	CPCD60	CPCD70			CPCD50	CPCD60	CPCD70	
ZM250	2500	5000	6000	7000	2210	840	8509	9039	9899	6°/12°
ZM270	2700	5000	6000	7000	2310	940	8546	9076	9936	6°/12°
ZM300	3000	5000	6000	7000	2460	1090	8603	9133	9993	6°/12°
ZM330	3300	5000	6000	7000	2610	1240	8660	9190	10050	6°/12°
ZM350	3500	5000	6000	7000	2710	1340	8697	9227	10087	6°/12°
ZM375	3750	5000	6000	7000	2835	1465	8745	9275	10135	6°/12°
ZM400	4000	5000	6000	7000	3010	1640	8920	9450	10310	6°/12°
ZM425	4250	5000	6000	7000	3135	1765	8972	9502	10362	6°/12°
ZM450	4500	5000	6000	7000	3260	1890	9015	9545	10405	6°/12°
ZM475	4750	5000	6000	7000	3385	2015	9062	9582	10452	6°/6°
ZM500	5000	5000	6000	7000	3510	2140	9099	9629	10489	6°/6°
ZM550	5500	4750	5700	6600	3810	2440	9319	9849	10709	6°/6°
ZM600	6000	4400	5400	6400	4060	2690	9414	9944	10804	6°/6°

Note: (1) 5-6t: the free lift without backrest 260mm increased, (2) 7t: the free lift without backrest 180mm increased.

5-7t Wide View Full Free 3-Stage Mast

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)(Kg)			Mast height lowered(mm)	Free lift (with backrest) (mm)	Service weight(kg)			Mast tilting angle (°)α/β
		CPCD50	CPCD60	CPCD70			CPCD50	CPCD60	CPCD70	
ZSM360	3600	4500	5600	6200	2335	910	9153	9683	10443	6°/6°
ZSM400	4000	4500	5600	6200	2460	1040	9213	9743	10503	6°/6°
ZSM435	4350	4500	5600	6200	2585	1156	9271	9801	10561	6°/6°
ZSM480	4800	4500	5600	6200	2740	1310	9468	9998	10758	6°/6°
ZSM500	5000	4500	5600	6200	2805	1380	9499	10029	10789	6°/6°
ZSM540	5400	4200	5300	6000	2940	1510	9568	10098	10858	6°/6°
ZSM600	6000	4000	5000	5600	3135	1710	9657	10187	10947	6°/6°
ZSM650	6500	3500	4500	5000	3405	1975	9746	10276	11036	6°/6°
ZSM700	7000	3200	4000	4500	3510	2085	9799	10329	11089	6°/6°

Note: (1) 5-6t: the free lift without backrest 260mm increased, (2) 7t: the free lift without backrest 180mm increased.

8.5-10t Wide View Standard Mast

Mast model	Max. fork height (mm)	Load capacity (load center 600mm)(Kg)			Mast height lowered(mm)	Service weight(kg)			Mast tilting angle (°)α/β
		CPCD85	CPCD100	CPCD85		CPCD85	CPCD100	CPCD85	
M250	2500	8500	10000	2450	2600	10921	12679	12241	6°/12°
M270	2700	8500	10000	2550	2700	10975	12719	12312	6°/12°
M300	3000	8500	10000	2700	2850	11600	12800	12386	6°/12°
M330	3300	8500	10000	2850	3000	11701	12848	12413	6°/12°
M350	3500	8500	10000	2950	3100	11846	12893	12443	6°/12°
M375	3750	8300	10000	3075	3225	11926	12943	12474	6°/12°
M400	4000	8300	10000	3250	3400	12101	13083	12511	6°/12°
M425	4250	8000	10000	3375	3525	12256	13138	12546	6°/12°
M450	4500	8000	9000	3500	3650	12376	13188	12581	6°/12°