

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

Note: "●" standard; "○" optional; "—" non-configuration

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



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5-10 t

G3 series Internal Combustion
Counterbalanced Forklift Truck



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**

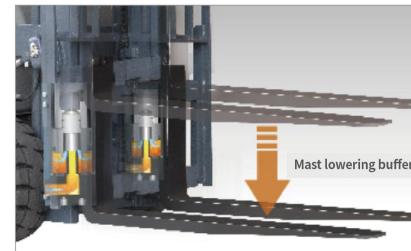
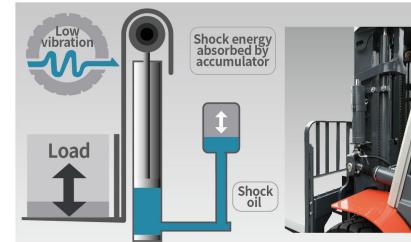
When driving under load conditions, the impact caused by uneven surface is greatly absorbed, and the vibration is effectively reduced.

- 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

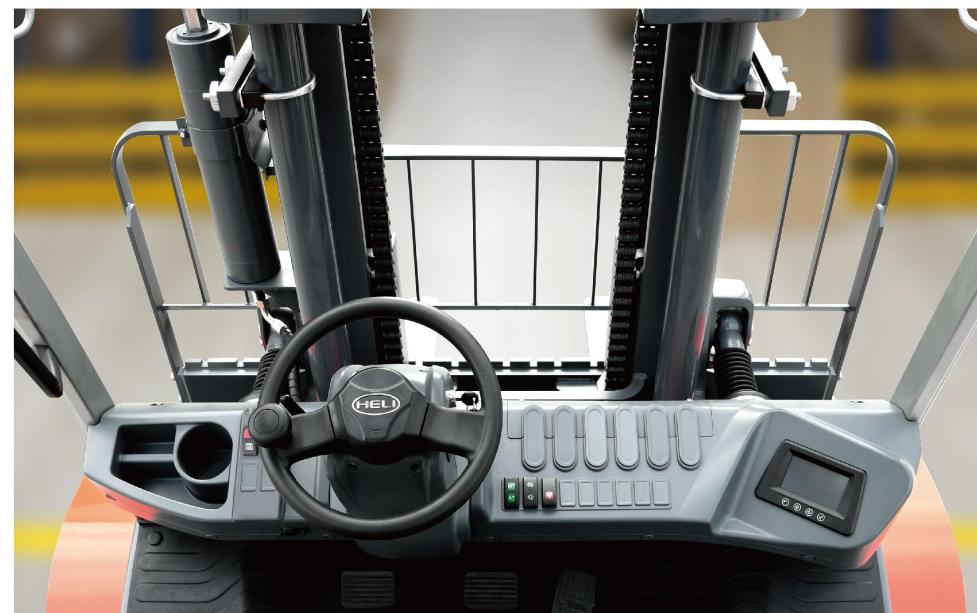


Hydraulic synchronous steering system can adjust steering wheel and wheel angle offset smartly and offers accurate steering and comfortable driving; (optional)

Ratchet 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

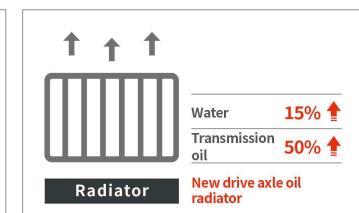
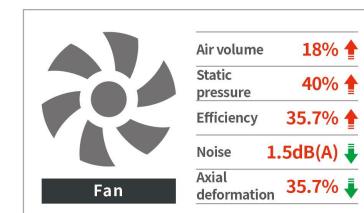
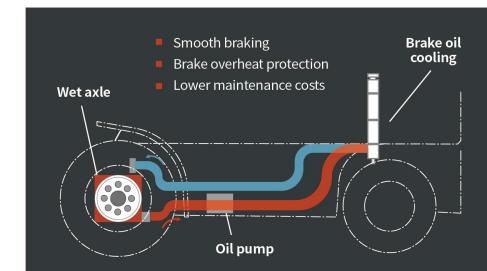
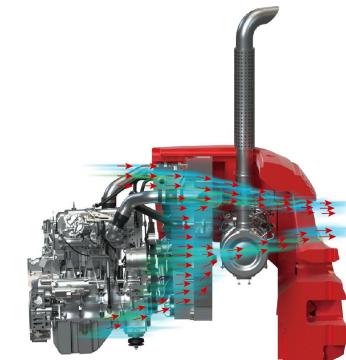
- Operator present system (after the driver leaves the seat accidentally, walking and lifting function of the whole truck is terminated) prevents the potential safety hazards caused by misoperation.
- When parking brake works, truck travel function is prohibited and thus the safety of driving operation 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.



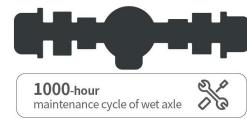
Note: the above data are from the comparison with G series 7t internal combustion forklift truck

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



Efficient and convenient maintenance

Super long maintenance cycle of core parts



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



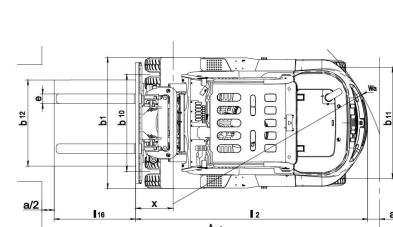
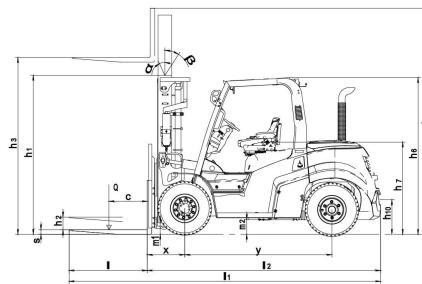
Timely remind maintenance information is given through instrument;

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

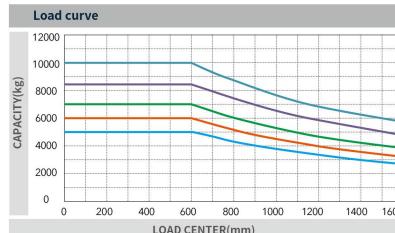


Manufacturer and Technical Data(Tabulation1)						
Characteristics						
1.01	Manufacturer					
1.02	Model					
1.03	Configuration number					
1.04	Rated capacity	Q c	kg mm	5000 6000 7000 8500 10000	600	
1.05	Load center distance					
1.06	Power mode				Diesel	
1.07	Driving mode				Seat-type	
1.08	Front overhang	x y	mm	575 2300	580 2500	585 2775
1.09	Wheelbase					
	Weight					
2.01	Total weight		kg	8470	9000	9860 11600 12800
2.02	Axle load (laden,front/rear)		kg	12000/1470	13390/1610	14930/1930 17700/2400 20300/2500
2.03	Axle load (unladen,front/rear)		kg	4430/4040	4270/4730	4300/5560 4750/6850 5800/7000
	Tires					
3.01	Tyre type				Pneumatic type	
3.02	Tyre size,front				8.25-15-14PR	9.00-20-14PR
3.03	Tyre size,rear				8.25-15-14PR	9.00-20-14PR
3.04	Wheels,number front/rear (x=driven wheels)					4X/2
3.05	Tread,front	b10	mm	1520		1600
3.06	Tread,rear	b11	mm		1700	
	Dimensions					
4.01	Mast tilt angle (forward/backward)	a/β	°	6/12		
4.02	Height (mast lowered)	h1	mm	2480	2700	2850
4.03	Free lifting height	h2	mm	155 160	165	190 200
4.04	Lifting height (standard)	h3	mm	3000		
4.05	Max. height,extended (with backrest)	h4	mm	4400	4250	4415
4.06	Height of overhead guard	h6	mm	2450		2560
4.07	Seat height relating to SIP (to ground)	h7	mm	1435		1540
4.08	Towing coupling height	h10	mm	535		600
4.09	Overall length (with fork)	l1	mm	4705	4795	4865 5172 5422
4.10	Overall length (without fork)	l2	mm	3485	3575	3645 3952 4202
4.11	Overall width	b1	mm	2045		2165
4.12	Fork size:thickness x width x length	s/e/l	mm	55/150/1220	60/150/1220	65/150/1220 70/175/1220 80/175/1220
4.13	Fork carriage,according to ISO2328				4A	/
4.14	Distance across fork-arms, Max./Min.	b5	mm	300-1845	470-1990	470-2100
4.15	Ground clearance (laden,between mast)	m1	mm	180		250
4.16	Ground clearance (center of wheelbase)	m2	mm	230		325
4.17	Right angle stacking aisle width for pallet 1000 x1200mm crossways	Ast	mm	5000	5060	5125 5517 5842
4.18	Right angle stacking aisle width for pallet 800 x1200mm lengthways	Ast	mm	5200	5260	5325 5717 6042
4.19	Min. outside turning radius	Wa	mm	3225	3280	3340 3630 3940
	Performance Data					
5.01	Travel speed (laden/unladen)		km/h	29/31	30/32	30/32
5.02	Lift speed (laden/unladen)		m/s	0.49/0.52	0.4/0.42	0.33/0.35
5.03	Lowering speed		m/s	WITH LOAD≤0.6	WITHOUT LOAD≥0.3	
5.04	Max.drawbar pull	N	62000	62000	62000	62000
5.05	Max.gradeability (laden/unladen)	%	42/20	36/20	32/20	24/20 21/20
	Combustion-engine					
6.01	Engine manufacturer/Moel			CUMMINS QSF3.8 Euro V/T4F		
6.02	Rated power/Speed	kW/rpm		90/2200		
6.03	Max. torque/Speed	Nm/rpm		500/1500		
6.04	Cylinder number-bore x stroke			4-10*115		
6.05	Engine displacement	L		3.8		
6.06	Emission			Euro V/ T4F		
	Addition data					
7.01	Service brake/Parking brake			Power braking / Mechanical		
7.02	Operating pressure for attachments	Mpa		/		
7.03	Transmission gears (front/rear)			Front2/Rear 2, Hydraulic transmission		
7.04	Fuel tank capacity	L		160		

Manufacturer and Technical Data(Tabulation2)						
Characteristics						
1.01	Manufacturer					
1.02	Model					
1.03	Configuration number					
1.04	Rated capacity	Q c	kg mm	5000 6000 7000 8500 10000	600	
1.05	Load center distance					
1.06	Power mode				Diesel	
1.07	Driving mode				Seat-type	
1.08	Front overhang	x y	mm	575 2300	580 2500	585 2775
1.09	Wheelbase					
	Weight					
2.01	Total weight		kg	8470	9000	9600 11600 12800
2.02	Axle load (laden,front/rear)		kg	12000/1470	13390/1610	14790/1810 17700/2400 20300/2500
2.03	Axle load (unladen,front/rear)		kg	4430/4040	4270/4730	4170/5430 4750/6850 5800/6860
	Tires					
3.01	Tyre type				Pneumatic type	
3.02	Tyre size,front				8.25-15-14PR	9.00-20-14PR
3.03	Tyre size,rear				8.25-15-14PR	9.00-20-14PR
3.04	Wheels,number front/rear (x=driven wheels)					4X/2
3.05	Tread,front	b10	mm	1520		1600
3.06	Tread,rear	b11	mm		1700	
	Dimensions					
4.01	Mast tilt angle (forward/backward)	a/β	°	6/12		
4.02	Height (mast lowered)	h1	mm	2480	2700	2850
4.03	Free lifting height	h2	mm	155 160	165	190 200
4.04	Lifting height (standard)	h3	mm	3000		
4.05	Max. height,extended (with backrest)	h4	mm	4400	4250	4415
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4.07	Seat height relating to SIP (to ground)	h7	mm	1435		1540
4.08	Towing coupling height	h10	mm	535		600
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4.12	Fork size:thickness x width x length	s/e/l	mm	55/150/1220	60/150/1220	65/150/1220 70/175/1220 80/175/1220
4.13	Fork carriage,according to ISO2328				4A	/
4.14	Distance across fork-arms, Max./Min.	b5	mm	300-1845	470-1990	470-2100
4.15	Ground clearance (laden,between mast)	m1	mm	180		250
4.16	Ground clearance (center of wheelbase)	m2	mm	230		325
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4.19	Min. outside turning radius	Wa	mm	3225	3280	3340 3630 3940
	Performance Data					
5.01	Travel speed (laden/unladen)		km/h	27/30		28/31 30/32
5.02	Lift speed (laden/unladen)		m/s	0.49/0.52		0.4/0.42 0.33/0.35
5.03	Lowering speed		m/s	WITH LOAD≤0.6	WITHOUT LOAD≥0.3	
5.04	Max.drawbar pull	N	62000			62000
5.05	Max.gradeability (laden/unladen)	%	39/20	34/20	30/20	22/20 20/20
	Combustion-engine					
6.01	Engine manufacturer/Moel					YUCHAI/YCA05115-5500
6.02	Rated power/Speed	kW/rpm				85/2200
6.03	Max. torque/Speed	Nm/rpm				500/1300-1600
6.04	Cylinder number-bore x stroke					4-10x132
6.05	Engine displacement	L				4.83
6.06	Emission					EuroV
	Addition data					
7.01	Service brake/Parking brake				Power braking / Mechanical	
7.02	Operating pressure for attachments	Mpa			/	
7.03	Transmission gears (front/rear)				Front2/Rear 2, Hydraulic transmission	
7.04	Fuel tank capacity	L				160



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



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 1000mm 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.

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 ($^{\circ}$) α / β
		CPCD50	CPCD60	CPCD70			
M200	2000	5000	6000	7000	2080	8325	8855
ZM250	2500	5000	6000	7000	2230	8389	9119
ZM270	2700	5000	6000	7000	2330	8421	9151
M300	3000	5000	6000	7000	2480	8470	9000
M330	3300	5000	6000	7000	2630	8519	9049
ZM350	3500	5000	6000	7000	2730	8551	9081
ZM375	3750	5000	6000	7000	2855	8592	9122
M400	4000	5000	6000	7000	3030	8758	9288
ZM425	4250	5000	6000	7000	3155	8798	9328
M450	4500	5000	6000	7000	3280	8839	9369
ZM475	4750	5000	6000	7000	3405	8880	9410
M500	5000	5000	6000	7000	3530	8920	9450
ZM550	5500	4750	5700	6600	3830	9114	9644
M600	6000	4400	5400	6400	4080	9196	9726
						10586	10586

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 ($^{\circ}$) α / β
		CPCD50	CPCD60	CPCD70				
ZM250	2500	5000	6000	7000	2210	840	8509	8989
ZM270	2700	5000	6000	7000	2310	940	8546	9076
ZM300	3000	5000	6000	7000	2460	1090	8603	9133
ZM330	3300	5000	6000	7000	2610	1240	8660	9190
ZM350	3500	5000	6000	7000	2710	1340	8697	9227
ZM375	3750	5000	6000	7000	2835	1465	8745	9275
ZM400	4000	5000	6000	7000	3010	1640	8920	9450
ZM425	4250	5000	6000	7000	3135	1765	8972	9502
ZM450	4500	5000	6000	7000	3260	1890	9015	9545
ZM475	4750	5000	6000	7000	3385	2015	9062	9582
ZM550	5500	4750	5700	6600	3510	2140	9099	9629
ZM600	6000	4400	5400	6400	4060	2690	9414	9944
						10804	10804	6 $/$ 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 ($^{\circ}$) α / β
		CPCD50	CPCD60	CPCD70				
ZM360	3600	4500	5600	6200	2335	910	9153	9683
ZM400	4000	4500	5600	6200	2460	1040	9213	9743
ZM435	4350	4500	5600	6200	2585	1156	9271	9801
ZM480	4800	4500	5600	6200	2740	1310	9468	9998
ZM500	5000	4500	5600	6200	2805	1380	9499	10029
ZM540	5400	4200	5300	6000	2940	1510	9568	10098
ZM600	6000	4000	5000	5600	3135	1710	9657	10187
ZM650	6500	3500	4500	5000	3405	1975	9746	10276
ZM700	7000	3200	4000	4500	3510	2085	9799	10329

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 ($^{\circ}$) α / β
		CPCD85	CPCD100			
M250	2500	8500	10000	2450	2600	12679
M270	2700	8500	10000	2550	2700	12719
M300	3000	8500	10000	2700	2850	12800
M330	3300	8500	10000	2850	3000	12848
M350	3500	8500	10000	2950	3100	12893
M375	3750	8300	10000	3075	3225	12943
M400	4000	8300	10000	3250	3400	13083
M425	4250	8000	10000	3375	3525	13256
M450	4500	8000	9000	3500	3650	13376
M475	4750	8000	9000	3625	3775	13251
M500	5000	7800	9000	3750	3900	13263
M550	5500	7500	8000	4050	4200	12958
M600	6000	7200	7500	4300	4450	13161

8.5-10t 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 ($^{\circ}$) α / β
		CPCD85	CPCD100				
ZM360	3600	7500	8000	2450	2570	12241	13536
ZM400	4000	7500	8000	2575	2700	12312	13628
ZM435	4350	7400	7800	2700	2820	1450	1400
ZM450	4500	7300	7800	2750	2870	1500	1450
ZM480	4800	7000	7300	2850	2970	1600	1550
ZM500	5000	7000	7300	2950	3035	1700	1615
ZM540	5400	6600	6800	3075	3225	1830	1805
ZM600	6000	5800	6000	3375	3425	2130	2005
ZM650	6500	5300	5500	3600	3590	2350	2170
ZM700	7000	4500	4600	3750	3855	2500	2435

Note: The service weight in the table is the weight of the truck assembled with Xichai engine.

When the installation method of fork carrier or attachment is a series axis type, the standard configuration is without backrest. When it is a hook type, the backrest is standard configuration.