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H3 Series Internal Combustion Counterbalanced Forklift Truck (Euro Stage V)





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

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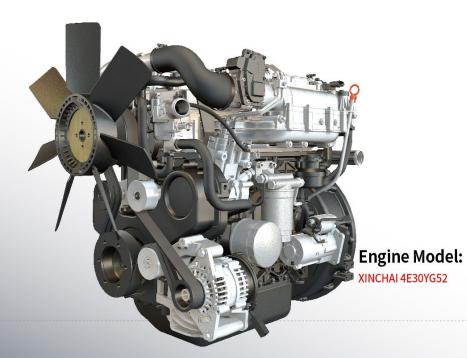




HIGH QUALITY PRODUCT

H3 series is proudly launched adhering to the principle of repaying the society with high quality product and vision of being century-old enterprise. To HELI, the H3 series is the culmination and milestone in pursuit of mastery in the development and manufacture of forklift over the years.

Elaborately built H3 series will provide you high level driving experience with environment friendliness, outstanding comfort, safety and reliability, easy maintenance and excellent working efficiency.





The whole machine adopts the engine conforming to the Euro stage V environmental protection standard;

■ The engine adopt XINCHAI 4E30YG52 Euro 5 electronic high pressure common rail engine,using three catalytic tail gas treatment technology.

Note: DOC — Diesel Oxidation Catalyst. DPF — Diesel Particulate Filters



Safety and reliability

HELI keeps improving truck safety and reliability to ensure the safety of people, machine and goods.



Improved cooling performance

- The hot air reflow isolating device, aluminum plate-fin type radiator, 60mm backward muffler and optimized thermal dissipation duct improve cooling ability and ensure engine work reliability to meet the requirements of working under harsh and high temperature environment better.
- The hydraulic system adopts high efficiency and low loss technology, comprehensively optimizes the hydraulic piping system and sealing form, and further reduces the pressure loss, hydraulic oil temperature and sealing reliability in the hydraulic system.

Driver restraint warning system

The vehicle is equipped with driver's safety belt restraint warning system, which makes driving safer.

Key parts

The optimal design of key parts like frame, mast and overhead guard improve the whole truck's safety and reliability.

Fully-closed panel-mounted cab

Fully-closed panel-mounted cab with high strength ensures the safety of people and machine fully.

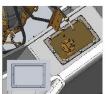
Casting axle

The key rotation parts are protected from water and dust to extend their maintenance period. With the using of casting axle, the bearing load carrying ability is improved and the truck structure is simple and reliable. The service life is prolonged.









■ ratchet parking brake

automobile type oil adding cap structure

double-lip elastic sealing gasket

Enhanced Operator Presence System with comprehensive security upgrade

- Walking on site induction safety system
 When the machine is running, the operator will suddenly leave the correct operating position without releasing the accelerator pedal, and the power will be cut off to protect the safety of running.
- LHS (Load Handling System) on site induction safety system and reset control system

 When the operator leaves or returns to the correct operating position without loosening the LHS control device, the operation brought by the LHS operation will be suspended and will not occur automatically, so as to protect the LHS operation safety.
- LHS (Load Handling System) static control system

 When the LHS control device is operated and the engine is started, the operation brought by LHS control will not happen automatically after the engine is started. Only when the LHS control device is reset and then operated can the operation continue.
- Non-parking security alarm system

 When the forklift is not powered off and the driver is not using the parking brake, an audible warning is used to alert the driver.







Easy maintenance

Easy maintenance which is good for maintaining the optimal condition of key parts and completed truck and ensures safety and work efficiency is the necessary character of a good product.

Large engine hood opening angle

- Engine hood lock integrated on the hood is convenient for opening and close during maintenance.
- The gas spring has optimized arrangement, improved load carrying ability, opening angle, prolonged gas spring service life and improved opening comfort.80°engine hood opening angle offers wide operation space for check and maintenance.

DPF (Diesel Particulate Filters) automatic regeneration

Euro 5 diesel-powered model is equipped with DPF automatic regeneration function, and the instrument is equipped with DPF blocking quantity display function (equipped with diesel vehicle), which is convenient for maintenance; When running the automatic regeneration program, the engine provides 100% power output. The DPF regeneration program can be interrupted at any time. DPF cleaning interval increased from 3000 hours to 6000 hours.

Low after-sales maintenance cost

- Equipped with Euro V diesel, liquefied gas, dual fuel power configuration to meet the needs of different users.
- Based on the same platform of a variety of fuel (diesel / liquefied gas) configuration scheme, the main parts of the general, low after-sales maintenance cost is low.







parking brake



mast pipeline



Excellent working efficiency

With high efficiency, the truck perfectly guarantees the material handling work at port, dock, and railway station. It can meet the requirements for various kinds of complicated work conditions.

Quick responding steering wheel

- With 100% pivot steering and returning, the truck has good maneuverability in narrow space.
- The truck has small turning radius, easy steering, good gradeability and flexible maneuverability.



Needs of low-temperature areas

The prototype was tested at -25 C in the cold storage laboratory to meet the demand for use at this temperature.

Diesel products with large capacity batteries

Euro V diesel-powered models use large capacity batteries, vehicle start, electricity is more secure.





Environment-friendliness

Clean and environment-friendly power meeting international emission standard is assembled on the H3 series to reduce harmful emissions and be environment-friendly. Meanwhile, H3 series effectively reduce truck vibration and noise.

Suspension cab

Cushion connection between the frame and cab and wholly suspension cab absorb whole truck's vibration effectively. Fully-closed panel-mounted cab isolates the noise.







suspension cab

damping support of the suspension cab

panel-mounted cab

Mast lowering buffering device

It reduces shock and vibration to the mast and avoids crash noise caused by goods falling to the ground.









Outstanding comfort

Ergonomic designs, optimized operating device structure and layout improve driving experience and ensure long hours of efficient operation.

Enlarged operating space

- Tilting cylinder located below the floor board, 30mm widened low anti-skidded step and 45% enlarged operation space at foot provide comfort
- 80mm heightened overhead guard and large arc shape of the overhead guard's front leg enlarge operating space and reduce operating fatigue.







hidden tilting cylinder

comfortable space

comfortable space

Outstanding visibility

With three-stage free lift mast, front view width is increased by 30mm; with 15mm lowered instrument panel, the visibility of fork and goods is increased by 20mm. CAE optimized counter weight structure improve rear view.





■ visibility at the fork tip and goods 20mm increased

front view 30mm enlarged

LED combined instrument

With the clear displaying and right installment of the instrument, the operator can know the truck information in time.

Rear assist handle (optional)

The assist grip with a horn enhances comfort by offering easy horn operation while travelling in reverse.





	Character								
1.01	manufacturer				HELI				
1.02	model			CPCD40/CP(Q)YD40	CPCD45/CP(Q)YD4	CPCD50/CP(Q)YD50			
1.03	rated capacity		kg	4000	4500	5000			
1.04	load center		mm	500	500	500			
1.05	operation mode		type		Seat-type	- 0			
	Size								
2.01	Max.lifting height	Н	mm		3000				
2.02	Mast overall height(fork to the ground and mast be vertical)	H1	mm	2275	2275	2275			
2.03	Max.fork lifting height(with backrest)	H2	mm		4250				
2.04	Free lift height	Н3	mm	150	150	150			
2.05	Overall height(overhead guard)	H4	mm		2350				
2.06	Min.groung clearance(at the mast)	H5	mm		175				
2.07	Distance from the surface of the seat to the overahead guard	Н6	mm		1020				
2.08	Traction pin height	Н9	mm	380	380	380			
2.09	Backrest height(calculated from the surface of the fork)	H13	mm	1250	1250	1250			
2.10	Overall length(with fork/without fork)	(L/L')	mm	4310/3240	4310/3240	4460/3240			
2.11	Wheel base	L1	mm	2100	2100	2100			
2.12	Front overhang	L2	mm	560	560	560			
2.13	Rear overhang	L3	mm	580	580	580			
2.14	Overall width	W1	mm	1510	1510	1510			
2.15	Tread (front/rear)	(W3/W2)	mm	1230/1190	1230/1190	1230/1190			
2.16	Fork adjustable range(the external of the fork)(Max./Min.)	W5	mm	1330/300	1330/300	1330/300			
2.17	Min.turning radius(exterior)	r	mm	2860	2860	2860			
2.18	Min.turning radius(interior)	ď	mm	215	215	215			
2.19	Min.right angle aisle width	Ra	mm	2820	2820	2820			
2.20	Min.right angle stacking aisle width	Ast	mm	4760	4760	4760			
2.21	Mast tilting angle (front/rear)	α/β	deg		6°/12°				
2.22	Fork size	L4×W×T	mm	1070×150×50	1070×150×50	1220×150×50			
	Weight								
3.01	Total weight		kg	6320	6620	6920			
	Wheel and tyre								
4.01	Wheel number x = drive wheel (front/rear)				2X/2				
4.02	yre type(front/rear)				Pneumatic tyre				
4.03	Tyre size(front/rear)			8.25-15-14PR,	/7.00-12-12PR	300-15-18PR/7.00-12-12F			
4.04	Service brake				Hydraulic-Foot Pedal				
4.05	Parking brake			Mechanical-Hand Lever					

Performance								
Model		CPCD40-XC11H	CPCD45-XC11H	CPCD50-XC11H				
Max.drawbar pull (Loaded/Unloaded)	kN	34/24	34/24	34/24				
Max.Gradeability (Loaded/Unloaded)	%	31/20	29/20	29/24				
Max.traveling speed (Loaded/Unloaded)	Km/h		23/25					
Lifting Speed (Loaded/Unloaded)	mm/s		470/510					
Lowing Speed (Loaded/Unloaded)	mm/s		450/450					
Drive and transmission control device								
Engine mode		XINCHAI 4E30YG52						
Engine rated power	KW/rpm	55.8/2200						
Engine rated torque	Nm/rpm	320/1200-1600						
Engine cylinder number-bore x stroke			4-94×107					
piston displancement	L		2.97					
Engine type			diesel					
Engine Emissions			EUstage V					
Battery(Voltage/Capacity)	V/Ah		12/80					
Engine fuel tank capacity	L		90					
Tranmission box shifting gears(front/rear type)	type		2-1Power Shift T/M					

Mast	Max	Load capacity (load center 500mm) Kg		Overall Height	Free lift height	Mast Tilting	Service Weight(unload)Kg			
Model	lifting height (mm)	CPCD40	CPCD45	CPCD50	(fork to the ground) (mm)	(With Backrest) (mm)	angle (°)α/β	CPCD40	CPCD45	CPCD50
M260	2600	4000	4500	5000	2075	150	6°/12°	6290	6590	6890
M270	2700	4000	4500	5000	2125	150	6°/12°	6300	6600	6900
M300	3000	4000	4500	5000	2275	150	6°/12°	6320	6620	6920
M330	3300	4000	4500	5000	2425	150	6°/12°	6340	6640	6940
M350	3500	4000	4500	5000	2525	150	6°/12°	6360	6660	6960
M370	3700	4000	4500	5000	2625	150	6°/12°	6370	6670	6970
M375	3750	4000	4500	5000	2650	150	6°/12°	6380	6680	6980
M400	4000	4000	4500	5000	2825	150	6°/6°	6390	6690	6990
M425	4250	3800 *4000	4300 *4500	4700 *5000	2950	150	6°/6°	6450	6750	7050
M450	4500	3700 *4000 3500	*4500 *4500 4000	4500 *5000	3075	150	6°/6°	6460	6760	7060
M475	4750	3500 *3700	4000 *4200	4500 *5000 4250 *4600 4000	3200	150	6°/6°	6480	6780	7080
M500	5000	*3700 3200 *3400	*4200 3600 *4000	4000 *4200	3325	150	6°/6°	6500	6800	7100
M550	5500	*3400 2900 *3200	*4000 3200 *4000	*4200 3600 *3800 3300	3575	150	3°/6°	6510	6810	7110
M600	6000	*3200 2600 *2900	3000 *3200	*3600 *3600	3825	150	3°/6°	6530	6830	7130

Note: (1)*stands for the rated capacity when the frontitire is double-tire;
(2) When the frontitire of the 8000-10000lbs truck is double tire, the service weight of the truck is the weight in the table plus 300lbs.

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Mast	Max lifting height	Load capacity (load center 500mm) Kg			Overall Height (fork to the ground)	Free lift height	Mast Tilting	Service Weight(unload)Kg		
Model	(mm)	CPCD40	CPCD45	CPCD50	(mm)	(mm)	angle (°)α/β	CPCD40	CPCD45	CPCD50
ZM261	2610	4000	4500	5000	2110	530	6°/12°	6615	6815	7075
ZM271	2710	4000	4500	5000	2160	580	6°/12°	6640	6840	7100
ZM300	3000	4000	4500	5000	2305	725	6°/12°	6690	6890	7150
ZM330	3300	4000	4500	5000	2455	875	6°/12°	6705	6905	7165
ZM350	3500	4000	4500	5000	2555	975	6°/12°	6715	6915	7175
ZM375	3750	4000	4500	5000	2680	1100	6°/12°	6730	6930	7190
ZM400	4000	4000	4500	5000	2805	1225	6°/6°	6745	6945	7205
ZM450	4500	3700 *4000	4200 *4500	4500 *5000	3055	1475	6°/6°	6770	6970	7230
ZM500	5000	3200 *3400	3600 *4000	4000 *4200	3305	1725	6°/6°	6805	7005	7265
ZM550	5500	2900 *3200	3200 *3600	3600 *3800	3555	1975	3°/6°	6830	7030	7290
ZM600	6000	2600 *2900	3000 *3200	*3600	3805	2225	3°/6°	6855	7055	7315

Note: (1) *stands for the rated capacity when the frontire is double-tire;
(2) When the frontitre of the 8000-100001bs truck is double-tire;
(3) The free lifting height (without backrest) of the 8000-100001bs truck is the height (without backrest) in the table plus 325mm.

Mast Model	Max lifting height			Overall Height (fork to the ground)	Free lift height	Mast Tilting	Service Weight(unload)Kg			
	(mm)	CPCD40	CPCD45	CPCD50	(mm)	(mm)	angle (°)α/β	CPCD40	CPCD45	CPCD50
ZSM392	3920	3840 *4000 3500	*4350 *4500	*5000	2250	650	6°/6°	6880	7080	7340
ZSM435	4350	*3800	4100 *4300	*5000 4400 *4800	2395	795	6°/6°	6900	7100	7360
ZSM450	4500	3350 *3500	4000 *4200	*4600	2445	845	6°/6°	6920	7120	7380
ZSM470	4700	3250 *3400	3800 *4000	4050 *4200 3950	2515	955	6°/6°	6940	7140	7400
ZSM480	4800	3150 *3300	3700 *3900 3400	3950 *4100	2545	990	6°/6°	6950	7150	7410
ZSM500	5000	3050 *3200	3400 *3700	*4100 3800 *4000 3500 *3600	2645	1040	6°/6°	6970	7170	7430
ZSM540	5400	*3000	*3700 3000 *3400	*3500 *3600	2760	1165	6°/6°	7010	7210	7470
ZSM600	6000	2400 *2500	2800 *3000	3150 *3400	3010	1405	3°/6°	7090	7290	7550

Note: (1) *stands for the rated capacity when the fronttire is double-tire;
(2) When the fronttire of the 8000-10000lbs truck is double tire, the service weight of the truck is the weight in the table plus 300lbs;
(3) The free_lifting height (without backrest) of the 8000-10000lbs truck is the height (without backrest) in the table plus 325mm.

