

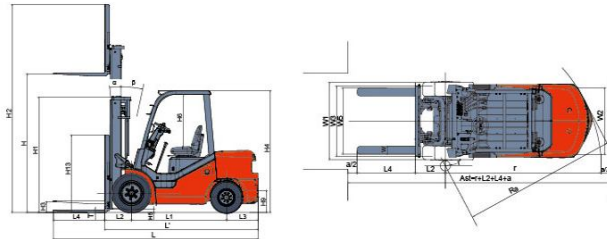
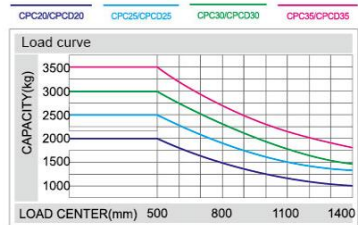
2-3.5t H3 SERIES INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK



Characteristic		HELI								
1.01 Manufacturer		HELI								
1.02 Model		CPC20	CPCD20	CPC25	CPCD25	CPC30	CPCD30	CPC35	CPCD35	
1.03	Load Capacity	kg	2000	2000	2500	2500	3000	3000	3500	3500
1.04	Load Centre	mm	500							
1.05	Power Type		Diesel							
1.06	Driving style		Seat-type							
Tire										
2.01	Front Tire		7.00-12-12PR	7.00-12-12PR	28×9-15-12PR	28×9-15-14PR				
2.02	Rear Tire		6.00-9-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10PR				
Dimension Parameter										
3.01	Lifting Height(standard)	H	mm	3000						
3.02	Mast Tilt(fwd/bwd)	α/β	deg	6°/12°						
3.03	Min. Turning Radius	r	mm	2170	2240	2400	2420			
3.04	Overall Length(without Forks)	L	mm	3500/2580	3708/2638	3818/2748	3836/2766			
3.05	Overall Width	W1	mm	1150			1225			
3.06	Overall Height(mast without activity)	H4	mm	2150			2170			
3.07	Wheel Base	L1	mm	1650			1700			
3.08	Tread(fwd/bwd)	W3/W2	mm	970/970			1000/970			
3.09	Overhang(fwd/bwd)	L2/L3	mm	473/457	473/515	478/570	496/570			
3.10	Min. Under clearance	H5	mm	115			135			
3.11	Lateral Fork Adjustment(Outside of Forks)	W5	mm	1030/244			1060/250			
3.12	Fork Length	L4	mm	920	1070	1070	1070			
3.13	Fork Width/Thickness	W/T	mm	122/40	122/40	125/45	125/50			
Performance Parameter										
4.01	Lifting Speed(Loaded)	mm/s	560	560	500	400				
4.02	Lowing Speed(Loaded)	mm/s	450	450	450	350				
4.03	Traveling Speed(Loaded/Unloaded/Unloaded)	km/h	17/19	17/19	19/20	19/19				
4.04	Max. Gradeability	%	30/25	39/28	27/23	35/23	21/23	29/22	15/22	23/20
Engine and Gearbox										
5.01	Engine Manufacturer/Model		ISUZU C240PKJ-30				ISUZU 4JG2			
5.02	Cyl. Number/Displacement	/L	4-86×102/2.369				4-95.4×107			
5.03	Rated Power/Rated Speed	kW/rpm	35.4/2500				44.9/2450			
5.04	Max. Torque/Rated Speed	Nm/rpm	139.9/1800				184.7/1600-1800			

ENGINE MODEL AND MAIN SPECIFICATION FOR OPTION

Internal Combustion Engine Model	Internal Combustion Engine Rate power (KW/rpm)	Internal Combustion Engine Rate torque (Nm/rpm)	Internal Combustion Engine Displacement (L)	Internal Combustion Engine Number of Cylinder
ISUZU 4JG2	35/2450	170/1700	3.05	4
KUBOTA 2403	34.1/2400	155.9/1600	2.434	4
CUMMINS QSF2.8	36.5/2500	186/1100-1500	2.8	4
CUMMINS QSF2.8	43/2500	186/1100-1500	2.8	4
DACHAI CA498	45/2500	170-180/1600-1800	3.168	4
HJ493	39/2500	165/1800	2.771	4
HJ493G43	36.8/2500	156/1800	2.771	4
Mitsubishi 4G64	GAS:48/2700 LPG:46/2700	GAS:170/2400 LPG:168/1600	2.351	4
GCT K21	31.5 /2200	140/1600	2.065	4



HIGH QUALITY PRODUCT

H3 series / HIGH EFFICIENCY ENERGY SAVING



2-3.5t
H3 SERIES INTERNAL COMBUSTION COUNTERBALANCED FORKLIFT TRUCK

HELI 安徽合力股份有限公司
ANHUI HELI CO., LTD.

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

© 2017 heli copyright
Catalog No.2017-01-C HELI Print



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.



A Environment friendliness

Low noise and exhaust emissions make H3 series environment friendly.

B Outstanding comfort

Operation comfort is improved through ergonomic design, enlarged operation space and reasonable layout.

C Safety and reliability

It is designed to be tougher and more durable.

D Easy maintenance

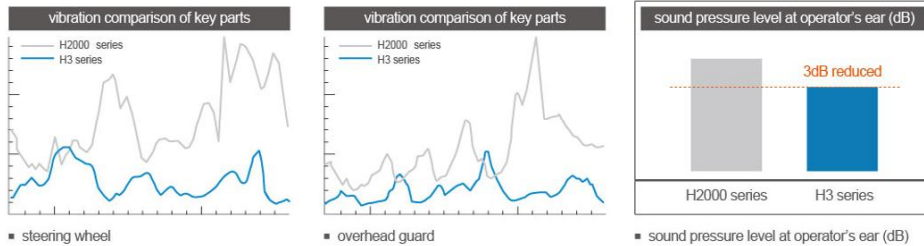
It is easy to carry out maintenance and thus prolongs truck service life.

E Excellent working efficiency

The operating performance and efficiency are improved.

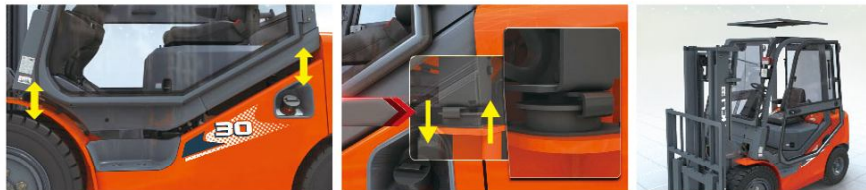
A. Environment-friendliness

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. Compared with H2000 series, vibration is reduced by more than 30% and the noise around ear is reduced by 3dB.



A.1 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

A.2 Suspension foot pedal

It isolates the vibration transmitted from the chassis to the operating devices. No opening on the floor board improves the sealing performance and isolates chassis noise.

A.3 Mast lowering buffering device

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



- lowering buffering device

A.4 Fully-closed cab

Fully-closed cab, using of thick sealing materials and acoustic material on the engine hood reduce the noise.



B. Outstanding comfort

During the development of H3 series, we attached importance on improving driving comfort. Ergonomic designs, optimized operating device structure and layout improve driving experience and ensure long hours of efficient operation.

B.1 Enlarged operating space

Tilting cylinder located below the floor board, 30mm widened low anti-skid step and 45% enlarged operation space at foot provide comfort entry, exit and operation.

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

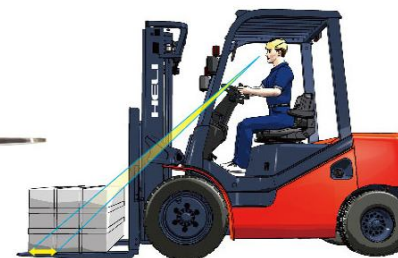


B.2 Semi-suspension seat

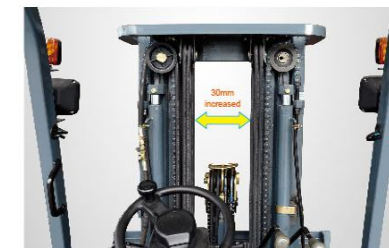
It reduces the transmission of vibration. The seat can adjust forward and backward to fit different operators' need.

B.3 Outstanding visibility

With three-stage free lift mast, front 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.



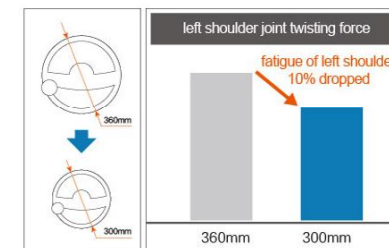
▪ visibility at the fork tip and goods 20mm increased



▪ front view 30mm enlarged

B.4 Operator-friendly steering wheel

Automobile type combined switch, 60mm to 300mm reduced steering wheel diameter and optimized vertical distance between the steering wheel and operating knob make operations easy and quick and reduce 10% of the driver's left shoulder fatigue. High installed adjusting mechanism of the steering column is easy for operation and satisfies different operators.



B.5 LED combined instrument

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

B.6 Rear assist handle (optional)

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





C. Safety and reliability

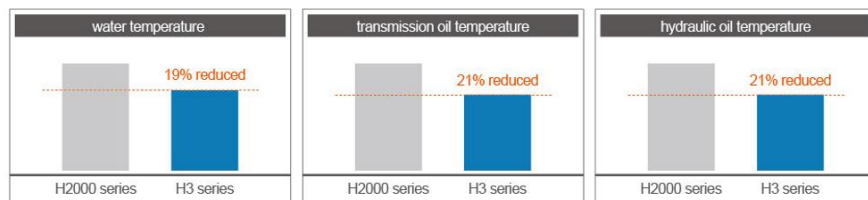
HELI keeps improving truck safety and reliability to ensure the safety of people, machine and goods.



C.1 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.

Compared with the truck with same capacity of H2000 series, the water temperature is 19% reduced, transmission oil temperature 21% reduced and hydraulic oil temperature 21% reduced.



C.2 Key parts

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

C.3 Fully-closed panel-mounted cab

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

C.4 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

C.5 Ratchet type parking brake

Different braking force can be achieved on slope and flat ground. The brake is safe and reliable.

C.6 Automobile type oil adding cap structure

The cap use screw to protect it from loose and its structure is simple.

C.7 Double-lip elastic sealing gasket

The innovative design solves the problem of oil sealing completely.

C.8 High installed rear combined LED lights

It is energy saving and striking. It effectively solves the problem of lights short service life and lampshade melt phenomenon. It extends light service life.



D. 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.

D.1 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.



▪ compositional radiator heat flow baffle

D.2 Front and rear floor board

It is easy to be disassembled and assembled and is easy to maintain engine and transmission system.



▪ brake liquid reservoir

D.3 Compositional radiator heat flow baffle

It is connected with bolts and can be disassembled without disassembling counter weight.

D.4 Brake liquid reservoir

Remove the upper cover of the instrument panel to observe the brake liquid level and add if necessary.



▪ mast pipeline

D.5 Optimized mast pipeline

Oil return pipelines are fixed onto the middle beam with skid mounted clamp. It is easy to install, maintain and is good for oil returning.



E. 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.

E.1 High stability

With lowered and backward center of gravity, truck stability is 5% improved and thus the truck is more stable during loading and unloading and travelling. Through optimizing the key parts, the truck loading capacity is 5% improved.

E.2 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.

E.3 Constant load sensing steering system

It increases lifting speed, reduces hydraulic oil temperature, improves working efficiency and extends seals service life. Compared with the truck with same capacity of H2000 series, the lifting speed without load is 14% improved, the lifting speed with load is 12% increased and the hydraulic oil temperature is 21% reduced.

