HELI

CPYD, CPQYD 55-70

KU3G3



* Details of specifications and equipment are based on information available at time of printing and may change without notice.

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11000-15500 lbs

G3 Series Dueal Fuel and LPG
Counterbalanced Forklift Truck

11000-15500lbs

G3 SERIES

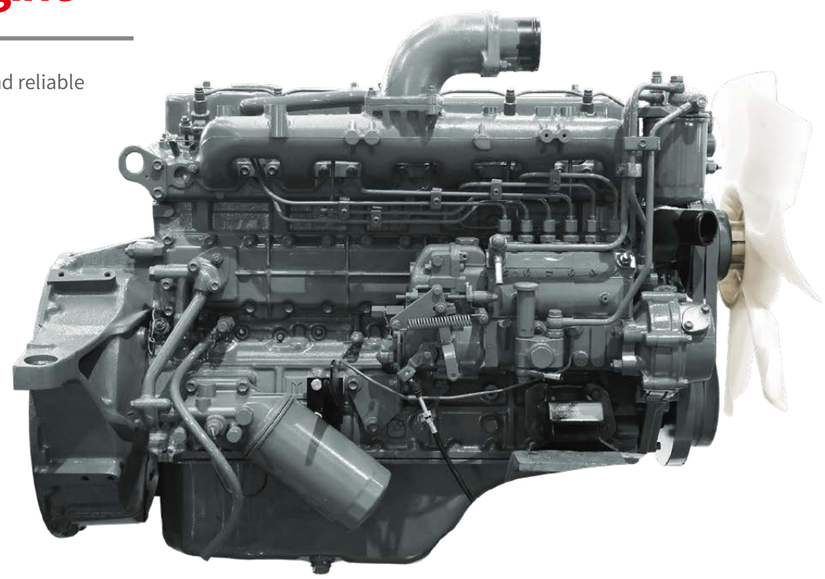
Our power and confidence are from reliable high quality products.

Elegance in appearance,excellent in performance

INTERNAL COMBUSTION
COUNTERBALANCED
FORKLIFT TRUCK

Powerful engine

Classic engine,energy saving and reliable



Standard DANFOSS hydraulic variable system and load sensitive steering system are energy saving and high efficiency;



A reliable drive system

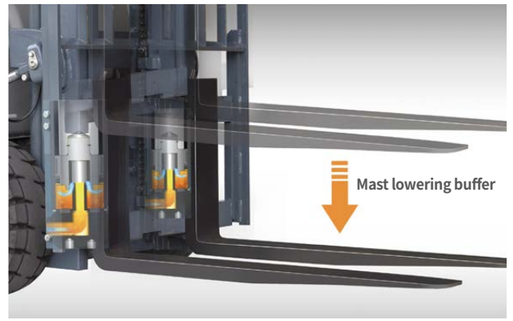
- The transmission box designed and manufactured by HELI specially for the model is equipped on the truck. As reliable transmission system produced by HELI,it has been validated by over twenty years experience in the world market.Meanwhile,various ancillary devices of the power system ensure the reliability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



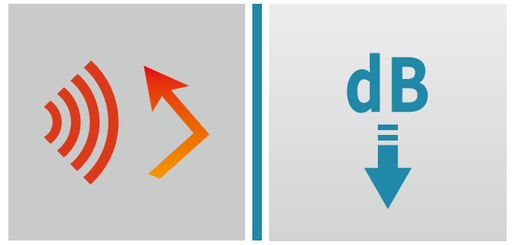
- Through LCD instrument and good human-computer interaction, the operator can monitor the truck status in real time.



- 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.

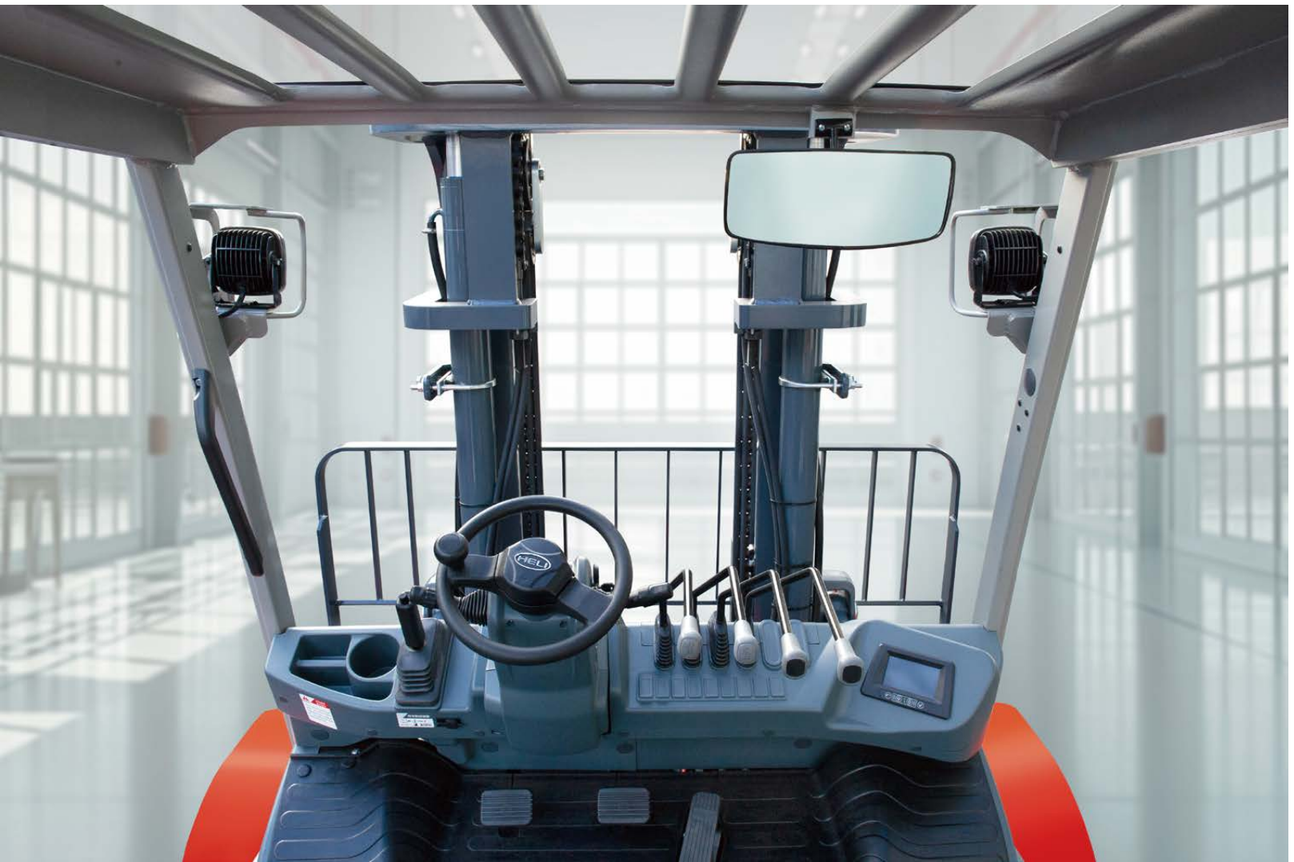


Rachet type parking brake



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.





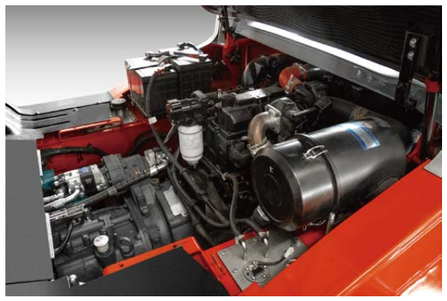
High efficient and safe

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

- Standard LED lamps, energy saving, more brighter, long service life.
- Load sensing steering and dual pump confluence technology,energy consumption reduce by 10%.
- 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)

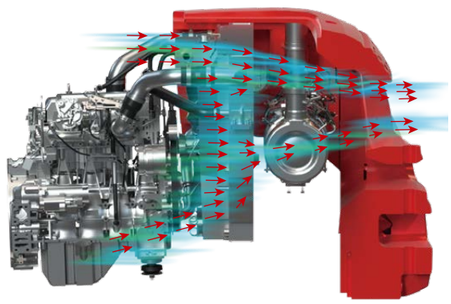


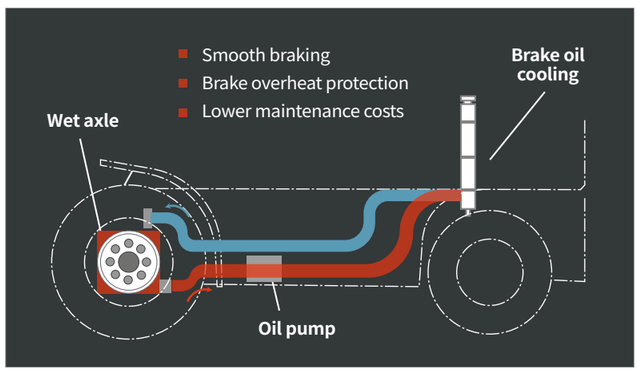


Reliable quality

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.





Fan

Air volume	18% ↑
Static pressure	40% ↑
Efficiency	35.7% ↑
Noise	1.5dB(A) ↓
Axial deformation	35.7% ↓

Radiator

Water	15% ↑
Transmission oil	50% ↑

New drive axle oil radiator

Note: the above data are from the comparison with G series 7t intenal combusion forklift truck

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



Fatigue test of drive axle



Fatigue test of steering axle



Fatigue test of lifting system

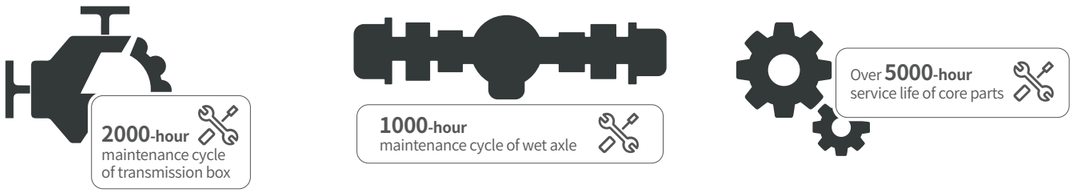


Impact test of overhead guard

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



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

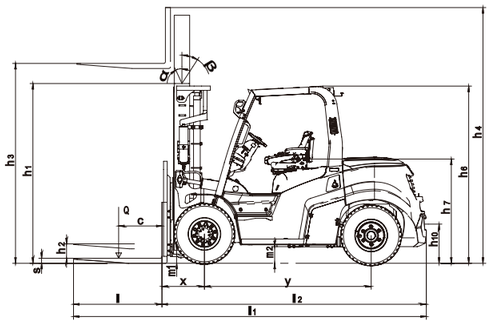


Timely remind maintenance information is given through instrument;

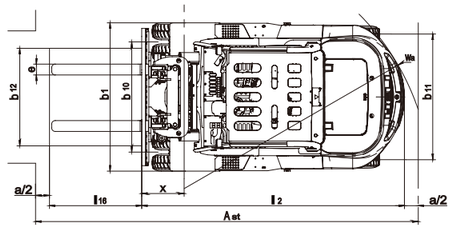
Large opening angle hood and detachable front and rear floor make check and repair easier;



Manufacturer and Technical Data						
	Characteristics					
1.01	Manufacturer			HELI		
1.02	Model			CP(Q)YD50	CP(Q)YD60	CP(Q)YD70
1.03	Power mode			LPG/GAS		
1.04	Rated capacity	Q	lbs	11000	13000	15500
1.05	Load center distance	C	in	24		
1.06	Driving mode			Seat-type		
	Dimension parameter					
2.01	Mast tilt angle(forward/ backward)	α/β	°	6/12		
2.02	Height(mast lowered)	h1	in	98		
2.03	Free lifting height	h2	in	6	6	6
2.04	Lifting height(standard)	h3	in	118		
2.05	Max. height, extended (with backrest)	h4	in	173		
2.06	Height of overhead guard	h6	in	96		
2.07	Seat height relating to SIP (to ground)	h7	in	56		
2.08	Towing coupling height	h10	in	21		
2.09	Ground clearance(between mast)	ml	in	7		
2.10	Overall length (with fork)	L1	in	185	189	192
2.11	Overall length (without fork)	L2	in	137	141	144
2.12	Front overhang	x	in	23	23	23
2.13	Wheelbase	y	in	91		
2.14	Overall width	b1	in	81		
2.15	Distance across fork-arms, Max./ Min.	b5	in	12-73		
2.16	Fork size: thickness×width×length	s/e/l	in	2.2×6×48	2.4×6×48	2.6×6×48
2.17	Tread, front	b10	in	60		
2.18	Tread, rear	b11	in	67		
2.19	Right angle stacking aisle width for pallet 1000 x1200mm crossways	Ast	in	197	199	202
2.20	Min. outside turning radius	Wa	in	127	129	131
	Tyres					
3.01	Wheels, number front/ rear(x= driven wheels)			4X/2		
3.02	Tyre type front/ rear			Pneumatic-tyre		
3.03	Tyre size, front			8.25-15-14PR		
3.04	Tyre size, rear			8.25-15-14PR		
	other					
4.01	Transmission type			Hydraulic transmission-electro-hydraulic directional change		
4.02	Transmission number of speed (fwd/ bwd)			2/2		
4.03	Service brake			Powered brake-pedal type		
4.04	Parking brake			Mechanical-hand brake lever type		
4.05	Operating pressure for attachments		Psi	297.3		
4.06	Battery voltage/ Capacity		V/ Ah	2X12/80		
	Performance Data					
5.01	Travel speed(laden/ unladen)		mph	13/16	13/16	13/16
5.02	Lift speed (laden/ unladen)		fpm	95/102	95/102	95/102
5.03	Lowering speed (laden/ unladen)		fpm	WITHOUT LOAD≥59 WITH FULL LOAD≤118		
5.04	Max. drawbar pull(laden/ unladen)		kN	62	62	62
5.05	Max. gradeability(laden/ unladen)		%	42/20	36/20	32/20
5.06	Weight		lbs	18304	19470	20768
	Combustion-engine					
6.01	Engine manufacturer/ Mode			Kubota WG3800		
6.02	Rated power/ Speed		Hp/ rpm	(LPG):84.7/2400 (GAS、LPG):73.2/2400		
6.03	Max. torque/ Speed		lb*ft/ rpm	(LPG):213.5/1200 (GAS、LPG):190/1200		
6.04	Cylinder number-bore×stroke			4-100×120		
6.05	Engine displacement		L	3.800		
6.06	Configuration NO.			KU3G3		



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



CP(Q)YD50-70 Wide View Standard Mastt

Mast model	Max. fork height (in)	Load capacity (load center 24in)(lbs)			Mast height lowered(in)	Service weight(lbs)			Mast tilting angle (°)α/β
		CP(Q)YD50	CP(Q)YD60	CP(Q)YD70	CP(Q)YD50-70	CP(Q)YD50	CP(Q)YD60	CP(Q)YD70	
M200	79	11000	13000	15500	82	18315	19481	21492	6°/12°
M250	98	11000	13000	15500	88	18456	19622	21540	6°/12°
M270	106	11000	13000	15500	92	18526	19692	21584	6°/12°
M300	118	11000	13000	15500	98	18634	19800	21692	6°/12°
M330	130	11000	13000	15500	104	18742	19908	21800	6°/12°
M350	138	11000	13000	15500	107	18812	19978	21870	6°/12°
M375	148	11000	13000	15500	112	18902	20068	21960	6°/12°
M400	157	11000	13000	15500	119	19268	20434	22326	6°/12°
M425	167	11000	13000	15500	124	19356	20522	22414	6°/12°
M450	177	11000	13000	15500	129	19446	20612	22504	6°/12°
M475	187	11000	13000	15500	134	19536	20702	22594	6°/6°
M500	197	11000	13000	15500	139	19624	20790	22682	6°/6°
M550	217	10400	12500	14500	151	20051	21217	23109	6°/6°
M600	236	9600	11800	14000	161	20231	21397	23289	6°/6°

CP(Q)YD50-70 Wide View Full Free 2-Stage Mast

Mast model	Max. fork height (in)	Load capacity (load center 24in)(lbs)			Mast height lowered(in)	Free lift (with backrest) (in)	Service weight(lbs)			Mast tilting angle (°)α/β
		CP(Q)YD50	CP(Q)YD60	CP(Q)YD70	CP(Q)YD50-70		CP(Q)YD50	CP(Q)YD60	CP(Q)YD70	
ZM250	98	11000	13000	15500	87	33	18720	19886	21778	6°/12°
ZM270	106	11000	13000	15500	91	37	18801	19967	21859	6°/12°
ZM300	118	11000	13000	15500	97	43	18927	20093	21985	6°/12°
ZM330	130	11000	13000	15500	103	49	19052	20218	22110	6°/12°
ZM350	138	11000	13000	15500	107	53	19133	20299	22191	6°/12°
ZM375	148	11000	13000	15500	112	58	19239	20405	22297	6°/12°
ZM400	157	11000	13000	15500	119	65	19624	20790	22682	6°/12°
ZM425	167	11000	13000	15500	123	69	19738	20904	22796	6°/12°
ZM450	177	11000	13000	15500	128	74	19833	20999	22891	6°/12°
ZM475	187	11000	13000	15500	133	79	19936	21080	22994	6°/6°
ZM500	197	11000	13000	15500	138	84	20018	21184	23076	6°/6°
ZM550	217	10400	12500	14500	150	96	20502	21668	23560	6°/6°
ZM600	236	9600	11800	14000	160	106	20711	21877	23769	6°/6°

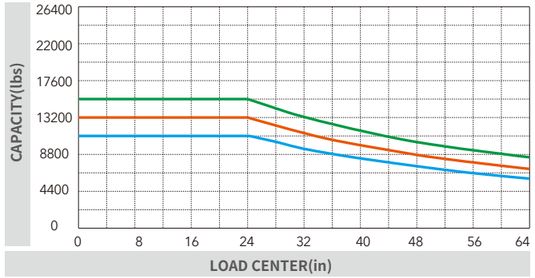
Note: (1) CP(Q)YD50-60: the free lift without backrest 10in increased, (2) CP(Q)YD70: the free lift without backrest 7in increased.

CP(Q)YD50-70 Wide View Full Free 3-Stage Mast

Mast model	Max. fork height (in)	Load capacity (load center 24in)(lbs)			Mast height lowered(in)	Free lift (with backrest) (in)	Service weight(lbs)			Mast tilting angle (°)α/β
		CP(Q)YD50	CP(Q)YD60	CP(Q)YD70	CP(Q)YD50-70		CPCD50	CPCD60	CPCD70	
ZSM360	142	9900	12300	13600	92	36	20137	21303	22975	6°/6°
ZSM400	157	9900	12300	13600	97	41	20269	21435	23107	6°/6°
ZSM435	171	9900	12300	13600	102	46	20396	21562	23234	6°/6°
ZSM480	189	9900	12300	13600	108	52	20830	21996	23668	6°/6°
ZSM500	197	9900	12300	13600	110	54	20898	22064	23736	6°/6°
ZSM540	213	9200	11600	13000	116	59	21050	22216	23888	6°/6°
ZSM600	236	8800	11000	12300	123	67	21245	22411	24083	6°/6°
ZSM650	256	7700	9900	11000	134	78	21441	22607	24279	6°/6°
ZSM700	276	7000	8800	9900	138	82	21558	22724	24396	6°/6°

Note: (1) CP(Q)YD50-60: the free lift without backrest 10in increased, (2) CP(Q)YD70: the free lift without backrest 7in increased.

Load curve



CPCD50 CPCD60 CPCD70

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 48in 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.

Configuration 1

Parts		
Packaging method	HELI packing	●
	Neutral packing	○
Economic and energy saving	Load sense steering	●
	Double pump confluence	●
Intelligent security	Hydraulic power braking	●
	Tilting cylinder with self-locking valve	●
	Reversing buzzer	●
	Reverse radar and camera	○
	Overspeed alarm (speed limit value adjustable)	○
	OPS (Only for driving)	○
	OPS (Driving and lifting)	○
	OPS (Special for Australia)	○
	Electric power switch	○
	Engine oil pressure alarm	●
	Oil water separator indicator	●
	Charging indicator	●
	Water temperature gauge	●
	Neutral start switch	●
	Spark arrester	○
	Fuel cap with lock	●
	Engine hood locking device	○
Reliability	Drum brake drive axle	●
	Wet-type brake drive axle (mandatory cooling)	○
	Hydraulic oil radiator	○
	9 inches double filter element air filter(with pressure alarm)	●
	Self discharging ash filter	○
Comfortable and convenient	Electro-hydraulic reversing	●
	Steering wheel with knob (HELI packing)	●
	Steering wheel without knob (HELI packing)	○
	Full hydraulic power steering	●
	Lowering buffering for rear lifting cylinder, upper buffering for front lifting cylinder	●
	Speed limiting valve for lifting oil circuit	●
	Man-machine interactive liquid crystal instrument	●
	Fan	○
	USB interface	●
	Get on/off handle	●

Note: "●" Standard; "○" Optional.

Configuration 2

Parts		
Cab/ wind shield	Front windshield (with wiper)	○
	Rear windshield (without wiper)	○
	Glass ceiling	○
	Panel mounted cab	○
	Heater	○
Lifting system	Basic wide view mast	●
	Two stages full free wide view mast	○
	Three stages full free wide view mast	○
	Hook type of fork carriage (CP(Q)YD50/60/70)	●
	Widened fork carriage	○
	Backrest (CP(Q)YD50/60/70)	●
	Non standard fork and attachment	○
Lights	LED lights 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 flashing warning light (assembly type)	○
	LED rotary warning light (assembly type)	○
	LED rotary buzzerlight (assembly type)	○
Tyre	Pneumatic tyre	●
	Solid tyre	○
Others	Metric thread	●
	Middle exhaust	●
	Counterweight with protective net	●
	Counterweight and mast sling	○
	Steering cylinder sleeve	●
	Tilting cylinder sleeve	○
	No universal Key	●
	Universal keys (2 pieces)	○
	Universal keys (4 pieces)	○
	Traction device	●
	Driver's tool kits	●
	Customized color	○

Note: "●" Standard; "○" Optional.