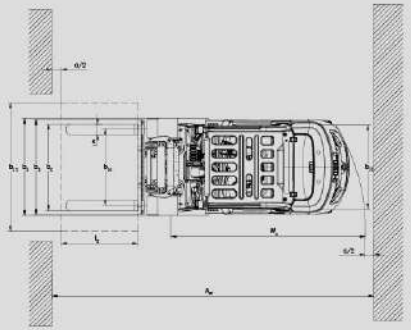
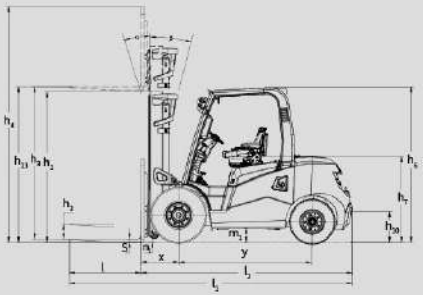
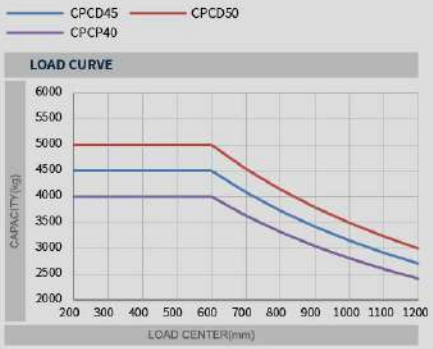
HELI





NOTE:

Vertical axle stands for load capacity while horizontal axle stands for load center.Load center is the distance counted from the front of the fork. The base point of the standard load is the center point of the cubic with the same 1200mm dimension in length,width and height. The load capacity should be down, if mask tilts forward, using non-standard forks or loading goods with estra width. Please notice the different load capacity between different load centers according to load chart.



Standard configuration	Optional configuration	
Reversing handle (with horn)	Warming light	Fire extinguisher
Protection sleelve for steering cylinder	Cab	Fan
LED lights	Two stage free lift mast and three stage free lift mast	Reversing horn speaker
File folder	Dual tyre of front wheel and solid tyre	Coarse filter
HEAN semi enclosed seat	Thread	Over speed alarm
Middle wide angle rear view mirro	Synchronized steering system	Automatic weight system,overload alarm
High exhaust(Deutz)/Median exhaust(Yu chai)	Rear view mirrors on both sides	Rear view system
Steering wheel with handle ball	Dual hose pulley block	Truck networking
Counter weight protection net	Double air filter	
Adjustable steering wheel	Rear lamp	
Ratchet parking brake	Protection sleelve for tilt cylinder	
Flexible connection casting steering axle	GRAMMER' S full suspension seat	
Stamping overhead guard	Air conditioner	
Electric-hydraulic reversing control	Heater	
Air filter with safety filter element	OPS control system	
LCD instrument		

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HELI

CPCD 40/45/50

DE2HG3/YC4G3



4-5 t

G3 series Internal Combustion
Counterbalanced Forklift Truck

AESTHETICS / FUNCTIONAL

A Design Of Perfect Combination



A NEW GENERATION OF PRODUCTS

Intelligent / Safe / Efficient / Saving and Environment Friendly

COMFORTABLE OPERATION

New family PI image design, appearance upgrade, optimized structure design and high-end configuration ensure comfortable operation from every detail.



The standard configuration of electro-hydraulic reversing and steering handle and lamp combination handle improves the operation convenience;



Full LCD color display CAN bus instrument fully monitors truck status; displays real-time engine and truck fault information and gives humanized reminder;

- High quality damping system matched with professional calculation make the idle vibration isolation rate up to 68%; high quality Hutchinson damping pad is adopted and has the features of more stable damping effect and longer service life;



The tilt cylinder sinks to improve the leg space;



Increased handle with leather anti-skid makes getting on and off more convenient;Reversing handle with horn makes truck reversing safer.



Wide view mast optimizes the blind area of operation vision and ensures comfortable and safe operation;



Standard configuration of mast lowering buffer makes it more comfortable to handle goods;



The ratchet type parking brake handle is more labor-saving.

- Intelligent shift hydraulic transmission, mature and reliable, small vehicle vibration, convenient and comfortable operation.

ENERGY SAVING AND ENVIRONMENT FRIENDLY

- Standard configuration of load sensing gives priority to steering and saves energy by 5%.
- The dual pump combined hydraulic system can supply flow on demand and reduce truck fuel consumption;
- Standard configuration of LED lights make truck more energy saving ,environment friendly,long life using and reliable.

HIGHER EFFICIENCY

- Enlarged high air intaking grid makes air intake smoother and engine power utilization more sufficient.
- Tail-free frame reduces truck center of gravity and improves truck lateral stability and bearing capacity at high.





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	



EASY MAINTENANCE

- 80° opening angle, easy opening mechanism and optional key lock make repair and maintenance easy.
- Module design of electric system reduces maintenance cost.





CPCD 40/45/50
DE2HG3/YC4G3

SAFE AND RELIABLE

- The standard hydraulic power assisted braking system has stronger tolerance to working environment (such as dust) and stable and reliable braking performance;
- The electro-hyd raulic reversing box and control box are mature and reliable, and the pipeline layout is optimized to effectively reduce the failure rate of electrical components;
- The waterproof connector is safe and reliable;
- Increased pipe diameter of hydraulic system reduces the pressure loss and extends the service life of hydraulic components;
- Increase the aluminum plate fin radiator controls temperature in a good range and effectively improves the reliability of each system;
- The standard 8-inch air filter with safety filter element is equipped with air filter blockage alarm device to remind the maintenance of the air filter in time, protect the engine and improve the reliability of the engine;



- Equipped with cast steering axle, the strength of the axle body is increased by 30%, and the standard protective sleeve is provided;
- High strength integral welded overhead guard improves driving safety factor;
- The balance weight is optimized to improve the rear field of view and ensure the safety of operation;
- The rear wheels are equipped with Zhengxin 14-layer tires as standard to improve the service life of tires;
- The metal step is anti-skid, reliable and durable;
- The optimized brake can effectively prevent locking after rain, reduce braking impact, extend the service life of the brake, prevent excessive braking, and significantly improve the reliability and service life.



Manufacturer and Technical Data

	Characteristics					
1.01	Manufacturer			HELI		
1.02	Model			CPCD40-*	CPCD45-*	CPCD50-*
1.03	Configuration number				DE2HG3	
1.04	Rated capacity	Q	kg	4000 (4500)	4500 (5000)	5000
1.05	Load center distance	c	mm		600 (500)	
1.06	Power mode				Diesel	
1.07	Driving mode				Sit-on type	
1.08	Front overhang	x	mm		560	
1.09	Wheelbase	y	mm		2100	
	Weight					
2.01	Total weight		kg	6510	6920	7280
2.02	Axle load (laden,front/rear)		kg	9840/1170	10540/1370	11270/1510
2.03	Axle load (unladen,front/rear)		kg	3080/3430	3030/3890	3010/4270
	Tyres					
3.01	Tyre type				Pneumatic type	
3.02	Tyre size,front				300-15-18PR (Double-tyre 8.25-15-14PR)	
3.03	Tyre size,rear				7.00-12-14PR	
3.04	Wheels,number front/rear (x=driven wheels)				2X/2(Double-tyre 4X/2)	
3.05	Tread, front	b_{10}	mm		1210	
3.06	Tread, rear	b_{11}	mm		1190	
	Dimensions					
4.01	Mast tilt angle (forward/backward)	α/β	°		6/12	
4.02	Height (mast lowered)	h_1	mm		2240	
4.03	Free lifting height	h_2	mm		150	
4.04	Lifting height (standard)	h_3	mm		3000	
4.05	Max. height,extended (with backrest)	h_4	mm	4250		4405
4.06	Height of overhead guard	h_6	mm		2350	
4.07	Seat height relating to SIP (to ground)	h_7	mm		1080	
4.08	Towing coupling height	h_{10}	mm		430	
4.09	Overall length (with fork)	l_1	mm	4425	4475	4525
4.10	Overall length (without fork)	l_4	mm	3205	3255	3305
4.11	Overall width	b_1	mm		1510	
4.12	Fork size:thickness x width x length	s/e/l	mm	50x150x1220	50x150x1220	55x150x1220
4.13	Fork carriage,according to ISO2328				III	IV
4.14	Distance across fork-arms, Max./Min.	b_5	mm		1374/300	
4.15	Ground clearance (laden,between mast)	m_1	mm		140	
4.16	Ground clearance (center of wheelbase)	m_2	mm		230	
4.17	Right angle stacking aisle width for pallet 1000 x1200mm crossways	Ast	mm	4640	4690	4740
4.18	Right angle stacking aisle width for pallet 800 x1200mm lengthways	Ast	mm	4840	4890	4940
4.19	Min. outside turning radius	Wa	mm	2880	2930	2970
	Performance Data					
5.01	Travel speed (laden/unladen)		km/h		25/26	
5.02	Lift speed (laden/unladen)		m/s		0.58/0.62	0.53/0.58
5.03	Lowering speed (laden/unladen)		m/s		0.45	
5.04	Max.drawbar pull (laden/unladen)		N		41/25	
5.05	Max.gradeability (laden/unladen)		%	30/28	33/28	30/28
	Combustion-engine					
6.01	Engine manufacturer/Moel				Deutz TCD 3.6 L04	
6.02	Rated power/Speed		kW/rpm		55.4/2300	
6.03	Max. torque/Speed		Nm/rpm		406/1300	
6.04	Cylinder number-bore x stroke				4-98x120	
6.05	Engine displacement		L		3.695	
6.06	Emission				Euro stage V /EPA T4F	
6.07	Transmission geers (front/rear)				2/1-Power Shift	
6.08	Fuel tank capacity		L		110	
	Addition data					
7.01	Service brake/Parking brake				Hydraulic assisted braking/ Mechanical-ratchet type	
7.02	Operating pressure for attachments		Mpa		14	

Engine model and main specification technical data for option

Engine model	Model	Rated power/speed	Max, torque/speed	Engine displacement	Cylinder number-bore x stroke	Emission	Transmission (front / rear)
YuChai YCF3675-S580 diesel engine	CPCD40~50-YC4G3-06	55.8/2200	330/1300~1600	3.6	4-98x120	Euro V	2/1-power shift

Wide View Standard Mast

Mast model	Max.lifting height (mm)	Load capacity (lode center 600mm)(kg)			Height (mast lowered) (mm)	Free lift height (with backrest) (mm)	Service weight (kg)			Mast tilt angle α/β (°)
		4t	4.5t	5t	4-5t	4-5t	4t	4.5t	5t	
M250	2500	4000	4500	5000	1990	150	6460	6870	7230	6°/12°
M300	3000	4000	4500	5000	2240	150	6510	6920	7280	6°/12°
M330	3300	4000	4500	5000	2390	150	6540	6950	7310	6°/12°
M350	3500	4000	4500	5000	2490	150	6560	6970	7330	6°/12°
M370	3700	4000	4500	5000	2590	150	6575	6985	7345	6°/12°
M400	4000	4000	4500	5000	2790	150	6650	7060	7420	6°/12°
M425	4250	4000	4500	5000	2915	150	6675	7085	7445	6°/6°
M450	4500	3800 *4000	4300 *4500	4700 *5000	3040	150	6695	7105	7465	6°/6°
M475	4750	3800 *4000	4300 *4500	4700 *5000	3165	150	6720	7130	7490	6°/6°
M500	5000	3800 *4000	4300 *4500	4700 *5000	3290	150	6745	7155	7515	6°/6°
M550	5500	3800 *4000	4300 *4500	4700 *5000	3590	150	6835	7245	7605	6°/6°
M600	6000	*3600	*3600	3800	3840	150	6885	7295	7655	6°/6°

Wide View Full Free 2-Stage Mast

Mast model	Max.lifting height (mm)	Load capacity (lode center 600mm)(kg)			Height (mast lowered) (mm)	Free lift height (with backrest) (mm)		Service weight (kg)			Mast tilt angle α/β (°)
		4t	4.5t	5t	4-5t	4-4.5t	4-5t	4t	4.5t	5t	
ZM250	2500	4000	4500	5000	1990	785	640	6415	6825	7290	6°/12°
ZM300	3000	4000	4500	5000	2240	1035	890	6475	6885	7350	6°/12°
ZM330	3300	4000	4500	5000	2390	1185	1040	6515	6925	7390	6°/12°
ZM350	3500	4000	4500	5000	2490	1285	1140	6535	6945	7415	6°/12°
ZM370	3700	4000	4500	5000	2590	1385	1240	6560	6970	7440	6°/12°
ZM400	4000	4000	4500	5000	2790	1585	1440	6650	7060	7535	6°/12°
ZM425	4250	4000	4500	5000	2915	1710	1565	6690	7100	7570	6°/6°
ZM450	4500	3800 *4000	4300 *4500	4700 *5000	3040	1835	1690	6730	7140	7615	6°/6°
ZM475	4750	3800 *4000	4300 *4500	4700 *5000	3165	1960	1815	6770	7180	7655	6°/6°
ZM500	5000	3800 *4000	4300 *4500	4700 *5000	3290	2085	1940	6810	7220	7695	6°/6°
ZM550	5500	3800 *4000	4300 *4500	4700 *5000	3590	2385	2240	6920	7330	7810	6°/6°
ZM600	6000	*3600	*3600	3800	3840	2635	2490	6975	7385	7865	6°/6°

Note:free lift for 4-4.5t (without backrest):+295mm; free lift for5t (without backrest):+447mm;

Wide View Full Free 3-Stage Mast

Mast model	Max.lifting height (mm)	Load capacity (lode center 600mm)(kg)			Height (mast lowered) (mm)		Free lift height (with backrest) (mm)		Service weight (kg)			Mast tilt angle α/β (°)
		4t	4.5t	5t	4-4.5t	4-5t	4-5t	4-4.5t	4t	4.5t	5t	
ZSM360	3600	3800 *4000	4350 *4500	4800 *5000	1940	1990	730	630	6625	7035	7520	6°/6°
ZSM400	4000	3800 *4000	4350 *4500	4800 *5000	2080	2130	870	770	6675	7085	7590	6°/6°
ZSM435	4350	3800 *4000	4350 *4500	4800 *5000	2190	2240	980	880	6715	7125	7620	6°/6°
ZSM450	4500	3800 *4000	4350 *4500	4800 *5000	2240	2290	1030	930	6735	7145	7640	6°/6°
ZSM470	4700	3800 *3800	4000 *4200	4500 *4800	2305	2355	1095	995	6755	7165	7665	6°/6°
ZSM500	5000	3800 *3800	4000 *4200	4500 *4800	2440	2490	1230	1130	6805	7215	7720	6°/6°
ZSM540	5400	3800 *3800	4000 *4200	3800 *4200	2590	2640	1380	1280	6915	7325	7835	6°/6°
ZSM600	6000	*3200	*3400	*3800	2790	2840	1580	1480	6990	7400	7910	6°/6°
ZSM650	6500	*2500	*2800	*3200	2990	3040	1780	1680	7060	7470	7985	6°/6°
ZSM700	7000	*1800	*2000	*2500	3165	3215	1955	1855	7125	7535	8060	6°/6°

Note:free lift for 4-4.5t (without backrest):+340mm; free lift for5t (without backrest):+425mm;