



HELI



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INTER LAKEN



CPCD 40/45/50 QC5K2/QC7K2/XC7K2/M4K2





4-5 t

K2 series Internal Combustion **Counterbalanced Forklift Truck**





Mast view (two-stage full free lift mast)



























Optimized mast structure effectively improves driver's



Standard configuration of buffering on the lifting cylinder offers comfort operation.



The standard configuration of LED lights have the features



Enlarged high positioned air inlet grid makes air intaking smoother and the using of engine power more



Enlarged grained leather antiskid handle improves the comfort of access and



The opening mechanism of engine hood is simple and reliable. Key lock is



Optimized pedal layout improves operation comfort (hydrodynamic truck).



Standard configuration of combined Large screen LCD instrument overally handle integrating electro hydraulic reversing handle, steering and lights facilitates operation (hydrodynamic truck). monitor truck state. The instrument displays real time engine and truck fault information and humanized reminder.



Upgraded brake drum and brake unit improves brake reliability and operation comfort.



The application of double pump confluence hydraulic system provides oil supply as required and reduces energy consumption of the whole truck.



Enlarged diameter of hydraulic system pipelines reduces pressure loss and prolongs hydraulic system service life.



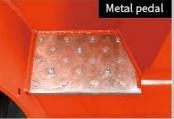
Enlarged aluminum plate fin radiator makes three kinds of temperature are controlled in a good range and effectively improves the reliability of the system.



After nearly 30 years of market validation, the flexible connected hydraulic



Standard configuration of air cleaner alarm reminds customer to maintain the air cleaner in time so as to protect engine and improve engine reliability.



Metal pedal is reliable and durable.



Clip type installation of floor board makes assembly and disassembly easy.



Optimized bi-wiring screw lock mechanism makes locking adjusting

K2 series 4-5 t INTERNAL COMBUSTION

The core parts of K2 series 4-5t internal combustion forklift truck have been fully verified by the market andthey are mature and reliable. The truck integrates R & D design concepts of "safety", "reliability" and "high efficiency" and "comfort" and combines technical exploration and design innovation in the field of internal combustion forklift truck in nearly half a century and the latest technology and process development which hilights the traditional attributes of durability and high cost performance.

Complete hard core configuration

A number of powerful and low emission engines are optional to meet your requirements.

Standard configuration of HELI homemade drive axle has high casting accuracy and strong strength. Transmission box configuration is rich which has been fully verified by the market and they are mature and reliable.

The tyre of steering axle is equipped with 14 plying rating which has the characteristics of high bearing capacity, wear resistance and long service life.

The brake system has been upgraded which effectively

improve the braking reliability and comfort.
The hydrodynamic truck adopts hydraulic assisted braking system and the braking performance is more stable and reliable.

Enlarged high positioned air inlet grid makes air intaking smoother and the using of engine power more sufficiently.

Large screen LCD instrument overally monitor truck

High strength alloy steel is used for mast channel steel, the tensile strength and safety factor of chain are significantly improved.

Enlarged diameter of hydraulic system pipelines and optimized pipeline arrangement extends the service life of hydraulic elements.

The application of double pump confluence hydraulic system is energy saving and high efficient. Standard configuration of LED lights is energy saving and environment friendly and has long service life and higher reliability.

Standard configuration of load sensor gives priority to steering and reduces energy loss.

Optimized cooling channel and standard configuration of enlarged aluminum plate fin radiator

improve cooling performance greatly. Standard configuration of air cleaner alarm reminds customer to maintain the air cleaner in

Optimized bi-wiring screw lock mechanism makes locking adjusting more convenient. The hydraulic truck is upgraded with a new intelligent shift system to prevent the starting from

Optimized brake pedal and accelerator pedal improve driving comfort. Small diameter steering wheel reduces the operation intensity and improves the driver's opera-

Integrated handle switch (hydrodynamic truck) and standard lifting cylinder lower buffer offer new driving experience.

Enlarged grained leather antiskid handle, half enclosed seat, instrument backlight design, anti-skid metal pedal and hood lock make the operation more comfortable.



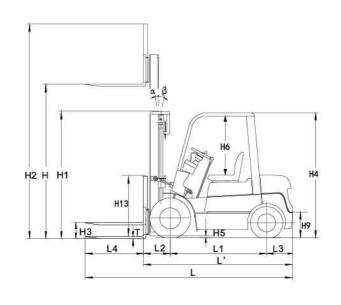
- Personnel management: authority control, trucks can only be started after passing identity authentication;
- · Safety management: detect and record overload, collision, overspeed and other safety incidents, to improve the driving compliance.

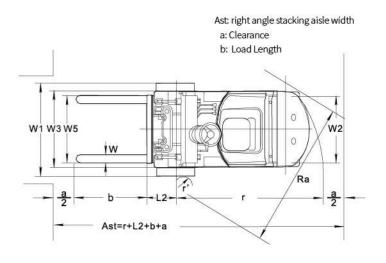
FICS HELI Intelligent Fleet Management System (optional)

FICS HELI intelligent fleet management system is an information system using cloud computing and Internet of things technology. It can help fleet managers to know the operation of the fleet and the performance of drivers in real time. The system software platform integrates the information and data collected by intelligent terminals to provide optimization analysis for operation investment, equipment maintenance and operation efficiency. HELI intelligent fleet management system can customize the solution of fleet optimization for you, and make your team the performance champion through the continuous optimization management.

- Asset management: multi organization decentralization management, truck basic information information management.
- Truck positioning: GPS / base station positioning, truck trajectory playback.
- . State monitoring: truck on and off, voltage, electricity, working time and other state information monitoring.
- Fault reminder: fault code, truck fault alarm.
- . Maintenance management: automatically remind maintenance information and maintenance scheduling record management.
- Intelligent report: operation record, working hours.
- App Management: control the running state of the fleet anytime and anywhere.

Manufacturer and Technical Data Characteristics 1.01 Manufacturer HELI 1.02 Model CPC40 CPCD40 CP(Q)YD40 CPC45 CPCD45 CP(Q)YD45 CPC50 CPCD50 CP(O)YD50 1.03 Power mode I PG IPG Diesel IPG Diesel Diesel 1.04 Q 5000 Rated capacity kg 4000 4500 1.05 Load center distance 500 500 500 1.06 Driving mode Seated Seated Seated Dimensions Max. height, extended (With backrest) H2 mm 4250 4250 4250 2.01 2.02 Max.lifting height 3000 3000 3000 Н mm 2275 Height (mast lowered) H1 mm 2275 2275 2.04 Free lifting height НЗ mm 150 150 150 Backrest height (calculated from the surface of the fork) 2.05 H13 mm 1250 1250 1250 Distance from the surface of the seat to the overhead guard H6 mm 2.06 1020 1020 1020 2.07 H4 mm 2350 2350 2350 Height of overhead guard L/L' mm Overall length (with/without fork) 4310/3240 4310/3240 4310/3240 2.09 Front overhang L2 mm 560 560 560 L3 2.10 580 580 580 Rear overhang mm 2.11 Wheelbase L1 2100 2100 2100 mm Towing coupling height H9 mm 300 300 300 2.13 H5 175 175 175 Ground clearance (laden, between mast) mm 2.14 Overall width W1 mm 1480 1480 1480 2 15 W5 1340/300 1340/300 1340/300 Distance across fork-arms, Max./Min. mm 2.16 W3/W2 mm Tread, front/rear 1180/1190(mechanical truck) 1230/1190(hydrodynamic truck) 2.17 Min. outside turning radius 2930 2930 2.18 Min. internal turning radius mm 215 215 215 Ra 2.19 Min.right angle stacking aisle width mm 2900 2900 2900 Right angle stacking aisle width for pallet 1000 x1200mm Right angle stacking aisle width for pallet 800 x1200mm 2.20 Ast mm 4690 4690 4690 2.21 Ast mm 4890 4890 4890 α/β deg 6/12 6/12 6/12 2.22 Mast tilt angle (forward/backward) 2.23 Fork size L4xWxT mm 1070x150x50 1070x150x50 1070x150x50 3.01 Total weight kg 6460 6750 6920 6290 6490 6660 3.02 Axle load (laden, front/rear) kg 8675/1615 8815/1645 9680/1480 10430/1320 10500/1420 9600/1390 Axle load (unladen,front/rear) kg 2772/3518 2776/3694 2830/3660 2865/3795 2860/3890 2965/3955 Wheels 401 Wheels, number front/rear (x=driven wheels) 2X/2(Double-tyre 4X/2) 4.02 Pneumatic tyre Tyre type 4.03 8.25-15-14PR Tyre size, front 300-15-18PR 4.04 Tyre size,rear 7.00-12-14PF 7.00-12-14PR 8.25-15-14PR/7.00-12-14PR 4.05 Double-tyre size (front/rear) Other data Vacuum assisted braking-pedal type (mechanical truck)/ hydraulic assisted braking-pedal type(hydrodynamic truck) 5.01 Service brake 5.02 Parking brake Mechanical-hand lever 5.03 Fuel tank capacity 90

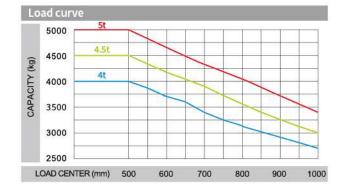




K2 series 4-5 t INTERNAL COMBUSTION

Technical parameters					
Truck performance parameters					
Model		CPC40/45/50	CPC40/45/50	CPCD40/45/50	CPCD40/45/50
Configuration number		QC7K2	QC8K2	QC5K2/QC7K2/XC7K2	M4K2
Transmission geers (front/rear)		shifting with single lever (forward 3 backward 2)	shifting with dual lever (forward 2 backward 2)	Electrohydraulic reversing (forward 2 backward 1	
Travel speed (laden/unladen)	km/h	21/21.6	18/18.5	24/25	25/26
Lift speed (laden/unladen)	mm/s	500	/530	530/560 440/500	
Lowering speed (laden/unladen)	mm/s	430	/400	430/400 480/440	
Max.drawbar pull (laden/unladen)	kN	31/20	30/20	39/22	28/22
Max.gradeability (laden/unladen)	%	24/20	22/20	26/20	≥20

Model and main	parameters of option	al engines						
Engine model	Engine instruction	Truck model	battery voltage/ capacity (V/Ah)	rated power/ speed (Kw/rpm)	rated torque/ speed (Nm/rpm)	engine displacement (L)	engine cylinder number-cylinder borexstroke	emission standard
Quanchai 4C6-85U32	498 electronic unit pump +supercharge	CPCD40~50-QC5K2	24/80	62.5/2200	300/1600-1800	3.47	4-98x115	China III
Xinchang 4D35ZG31	498 electronic unit pump +supercharge	CPCD40~50-XC7K2	24/80	60/2200	300/1600-1800	3.47	4-98x115	China III
Quanchai 4C6-88C31	498 electric controlled high pressure common rail system	CPC40-50-QC7K2 CPC40-50-QC8K2 CPCD40-50-QC7K2	12/80	65/2200	350/1800	3.47	4-98x115	China III
Mitsubishi S6S	mechanical pump +naturally aspirated	CPCD40-50-M4K2	12/80	52/2300	248/1700	4.996	6-94x120	China III/ Euro III A
KUBOTA WG3800	LPG/GAS	CPQYD40-50-KU2K2	12/80	60.7/2400	273/1200	3.769	4-100x1200	-
KUBOTA WG3800	LPG	CPYD40-50-KU2K2	12/80	63.2/2400	282.4/2400	3.769	4-100x1200	1920



Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front of the fork. The base point of the standard load refers to the center position of the cube with 1000mm length of side. When mast is tilted forward, nonstandard fork usage or load with over wide goods, load capacity will be reduced. Different load capacity in different load center can be known in time through load chart.

Standard	Optional		Optional attachments
Wide view mast	Cab	Widen backrest	Side shifter
Standard fork	Heater	High exhausting	Paper roll clamp
Standard backrest	Air conditioner	Protective bush for steering cylinder	Rotating fork
Standard overhead guard	Overhead guard for operation	Protective bush for tilting cylinder	Cargo boom
Rain proof hood of overhead guard	in container	Custom madecolor	Drum clamp
Lcd combined instrument	Windshield glass	Protective net for counter weight	Rotating clamp
Pneumatic tyre	Iron sheet celling	(steel protective net)	Fork extension
Traction pin	Dual air cleaner	Fuel tank lock	Load stabilizer
Attached tools	Solid tyre	Integrated horn button	Tilting fork
Led signals	Dual tyre	Slings	Tilting bucket
Standard sea	Fan	Suspension seat	Sanitation fork
Control valve	Warning light	Custom madecolor	Dual jib
Backward buzzer	Rear working light	Fics	Sideshifting tilting fork
Hour meter	Reversing image, reversing radar		Boom
Adjustable steering column	Overspeed alarm		Hook
Rearview mirror	Fire extinguisher		
Combined instrument	Purification muffler		
Torque converter oil level gauge	Outfire muffler		

Mast model	Max.lifting	Load capacity (load center 500mm)				service weigh	mast overall height (fork to	mast tilting	
Mastinodel	height (mm)	4t	4.5t	5t	4t	4.5t	5t	the ground)	angle α/β
M260	2600	4000	4500	5000	6244(6414)	6444(6614)	6704(6874)	2075	6°/12°
M270	2700	4000	4500	5000	6256(6426)	6456(6626)	6716(6886)	2125	6°/12°
M300	3000	4000	4500	5000	6290(6460)	6490(6660)	6750(6920)	2275	6°/12°
M330	3300	4000	4500	5000	6324(6494)	6524(6694)	6784(6954)	2425	6°/12°
M350	3500	4000	4500	5000	6347(6517)	6547(6717)	6807(6977)	2525	6°/12°
M370	3700	4000	4500	5000	6370(6540)	6570(6740)	6830(7000)	2625	6°/12°
M400	4000	4000	4500	5000	6459(6629)	6659(6829)	6919(7089)	2825	6°/6°
M425	4250	3800 *4000	4300 *4500	4700 *5000	6488(6658)	6688(6858)	6948(7118)	2950	6°/6°
M450	4500	3700 *4000	4200 *4500	4500 *5000	6517(6687)	6717(6887)	6977(7147)	3075	6°/6°
M475	4750	3500	4000	4250	6546(6716)	6746(6916)	7006(7176)	3200	6°/6°
M500	5000	*3700 3200 *3400	*4200 3600 *4000	*4600 4000 *4200	6573(6743)	6773(6943)	7033(7203)	3325	6°/6°
M550	5500	2900	3200 *3600 3000	3600 *3800 3300	6679(6849)	6879(7049)	7139(7309)	3575	6°/6°
M600	6000	*3200 2600 *2900	3000 *3200	3300 *3600	6735(6905)	6935(7105)	7195(7365)	3825	6°/6°

Note:* stands for the rated capacity when the front tyre is double-tyre.
In the weight column, the weight without brackets is the weight of mechanical truck (CPC type), the weight with brackets is that of hydrodynamic truck (CPCD type, CP (Q) YD type).

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Mast model	Max.lifting	Load capacity (load center 500mm)			service weight			mast overall height (fork to	free lifting height (with	mast tilting
Mastinodet	height (mm)	4t	4.5t	5t	4t	4.5t	5t	the ground)	backrest)	angle α/β
ZM261	2610	4000	4500	5000	6340(6510)	6540(6710)	6800(6970)	2110	900	6°/12°
ZM271	2710	4000	4500	5000	6355(6525)	6555(6725)	6815(6985)	2160	950	6°/12°
ZM300	3000	4000	4500	5000	6397(6567)	6597(6767)	6857(7027)	2305	1095	6°/12°
ZM330	3300	4000	4500	5000	6441(6611)	6641(6811)	6901(7071)	2455	1245	6°/12°
ZM350	3500	4000	4500	5000	6470(6640)	6670(6840)	6930(7100)	2555	1345	6°/12°
ZM375	3750	4000	4500	5000	6506(6676)	6706(6876)	6966(7136)	2680	1470	6°/12°
ZM400	4000	4000	4500	5000	6563(6733)	6763(6933)	7023(7193)	2805	1595	6°/6°
ZM450	4500	3700 *4000	4200 *4500	4500 *5000	6635(6805)	6835(7005)	7095(7265)	3055	1845	6°/6°
ZM500	5000	3200	3600	4000	6708(6878)	6908(7078)	7168(7338)	3305	2095	6°/6°
ZM550	5500	*3400 2900 *3200	*4000 3200 *3600	*4200 3600 *3800	6824(6994)	7024(7184)	7284(7454)	3555	2345	6°/6°
ZM600	6000	2600 *2900	3000 *3200	3300 *3600	6873(7043)	7073(7243)	7333(7503)	3805	2595	6°/6°

Note:* stands for the rated capacity when the front tyre is double-tyre.

1. In the weight column, the weight without brackets is the weight of mechanical truck (CPC type), the weight with brackets is that of hydrodynamic truck (CPCD type, CP (Q) YD type).

2.Free lifting height(without backrest)+400mm

Mast model	Max.lifting	Load capacity (load center 500mm)			service weight			mast overall height (fork to	free lifting height (with	mast tilting
Mast model	height (mm)	CPC(D)40	CPC(D)45	CPC(D)50	CPC(D)40	CPC(D)45	CPC(D)50	the ground)	backrest)	angle α/β
ZSM435	4350	3500 *3800	4100 *4300	4400 *4800	6638(6808)	6838(7008)	7098(7268)	2190	960	6°/6°
ZSM450	4500	*3800 3350 *3500	*4300 4000 *4200	4400 *4800 4200 *4700	6658(6828)	6858(7028)	7118(7288)	2240	1010	6°/6°
ZSM470	4700	3250 *3400	3800 *4000	4050 *4300	6684(6854)	6884(7054)	7144(7314)	2305	1075	6°/6°
ZSM480	4800	3150 *3300	3700 *3900	3950 *4100	6697(6867)	6897(7067)	7157(7327)	2340	1110	6°/6°
ZSM500	5000	3050 *3200	3400	3800 *4000	6737(6907)	6937(7107)	7197(7367)	2440	1210	6°/6°
ZSM540	5400	2750 *3000	*3800 3000 *3400	3500 *3700	6814(6984)	7014(7184)	7274(7444)	2575	1345	6°/6°
ZSM600	6000	2400 *2500	2800 *3000	3150 *3400	6922(7092)	7122(7292)	7382(7552)	2810	1580	6°/6°

Note: $\!\!\!^\star$ stands for the rated capacity when the front tyre is double-tyre.

1.In the weight column, the weight without brackets is the weight of mechanical truck (CPC type), the weight with brackets is that of hydrodynamic truck (CPCD type, CP (Q) YD type).

2.Free lifting height(without backrest)+330mm

3.Low Series Door Frame(Ground Clearance 120mm)Ground Height -20mm