

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.

More reliable

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

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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

More excellent

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 time.

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 second gear.

More comfortable

Optimized brake pedal and accelerator pedal improve driving Small diameter steering wheel reduces the operation intensity and

improves the driver's operation convenience. 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.

HELI

4-5t **K2 series Internal Combustion Counterbalanced Forklift Truck**



www.heliforklift.net

















Optimized mast structure effectively improves driver's view.

Upgraded brake drum and brake unit improves brake reliability and operation

Wide brake per

Tyre with plying rating 14

Standard configuration of Zhengxin tyre

with plying rating 14 improves tyre service

confluence hydraulic system provides oil supply as required and reduces energy

Optimized pedal layout improves operation comfort (hydrodynamic truck).



view (two-stage full free of LED lights wheel' ssteering force brake force





Standard configuration of buffering on the lifting cylinder offers comfort

Enlarged diameter of hydraulic system

prolongs hydraulic system service life.





More economica

high end configuration

tter performance

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

Enlarged aluminum plate fin radiator

makes three kinds of temperature are controlled in a good range and effectively improves the reliability of the system.

working efficiency

overall improved

More reliable

Optimized key parts improves truck reliability

More comfortable

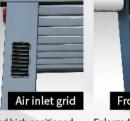








brake drum's hardness rate in idling: 68% brake pedal dimension of hydraulic system



The standard configuration of LED lights have the features of environment friendly.

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



Standard configuration of combined handle integrating electro hydraulic reversing handle, steering and lights facilitates operation (hydrodynamic truck)



Large screen LCD instrument overally monitor truck state. The instrument displays real time engine and truck fault information and humanized reminder.



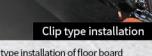
Standard configuration of air cleaner alarm reminds customer to maintain the air cleaner in time so as to protect engine



Metal pedal is reliable and durable.

Latch opening mechanism





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

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K2 SERIES 4-5 t

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.

Standard

- 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.

Combined instrument

Torque converter oil level gauge

 Maintenance management: automatically remind maintenance information and maintenance scheduling record management.

Purification muffler

Outfire muffler Widen backrest

- Intelligent report: operation record, working hours.
- App Management: control the running state of the fleet anytime and anywhere.

Optional

- 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

andard	Optional		Optional attachments
de view mast	Cab	High exhausting	Side shifter
indard fork indard backrest	Heater Air conditioner	Protective bush for steering cylinder Protective bush for tilting cylinder	Paper roll clamp
indard backrest indard overhead guard	Overhead guard for operation	Custom madecolor	Rotating fork Cargo boom
in proof hood of overhead guard	in container	Protective net for counter weight	Drum clamp
combined instrument	Windshield glass	(steel protective net)	Rotating clamp
eumatic tyre	Iron sheet celling	Fuel tank lock	Fork extension
ction pin	Dual air cleaner	Integrated horn button	Load stabilizer
ached tools	Solid tyre	Slings	Tilting fork
d signals	Dual tyre	Suspension seat	Tilting bucket
indard sea	Fan	Custom madecolor	Sanitation fork
ntrol valve	Warning light	Fics	Dual jib
ckward buzzer	Rear working light		Sideshifting tilting fork
ur meter	Reversing image, reversing radar		Boom
justable steering column	Overspeed alarm		Hook
arview mirror	Fire extinguisher		

2.04	Free lifting height	НЗ	mm				150			
2.05	Backrest height (calculated from the surface of the fork)	H13	mm	m 1250						
2.06	Distance from the surface of the seat to the overhead guard	H6	mm		1020					
2.07	Height of overhead guard	H4	mm		2350					
2.08	Overall length (with/without fork)	L/L'	mm			43.	10/3240			
2.09	Front overhang	L2	mm				560			
2.10	Rear overhang	L3	mm				580			
2.11	Wheelbase	L1	mm			5	2100			
2.12	Towing coupling height	Н9	mm				300			
2.13	Ground clearance (laden,between mast)	H5	mm				175			
2.14	Overall width	W1	mm				1480			
2.15	Distance across fork-arms, Max./Min.	W5	mm	1340/300						
2.16	Tread, front/rear	W3/W2	mm	1180/1190(mechanical truck) 1230/1190(hydrodynamic truck)						
2.17	Min. outside turning radius	r	mm	2930						
2.18	Min. internal turning radius	r'	mm	215						
2.19	Min.right angle stacking aisle width	Ra	mm	2900						
2.20	Right angle stacking aisle width for pallet 1000 x1200mm	Ast	mm	4690						
2.21	Right angle stacking aisle width for pallet 800 x1200mm	mm	4890							
2.22	Mast tilt angle (forward/backward)	α/β	deg				6/12			
2.23	Fork size	L4xWxT	mm			1070	0x150x50			
	Weight			10						
3.01	Total weight		kg	6290	6460	6490	6660	6750	6920	
3.02	Axle load (laden,front/rear)		kg	8675/1615	8815/1645	9600/1390	9680/1480	10430/1320	10500/1420	
3.03	Axle load (unladen,front/rear)			2772/3518	2776/3694	2830/3660	2865/3795	2860/3890	2965/3955	
	Wheels							,		
4.01	Wheels,number front/rear (x=driven whe		2X/2(Double-tyre 4X/2)							
4.02	Tyre type			Pneumatic tyre						
4.03	Tyre size,front			8.25-15-14PR 300-15-18PR						

7.00-12-14PR

8.25-15-14PR/7.00-12-14PR

Vacuum assisted braking-pedal type (mechanical truck)/

Mechanical-hand lever

hydraulic assisted braking-pedal type(hydrodynamic truck)

7.00-12-14PR

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CPC40 CPCD40 CP(Q)YD40 CPC45 CPCD45 CP(Q)YD45 CPC50 CPCD50 CP(Q)YD50

4500

Seated

4250

3000 2275

Manufacturer and Technical Data

2.01 Max. height, extended (With backrest) H2 mm

Q kg

H mm

H1 mm

Characteristics

1.05 Load center distance 1.06 Driving mode

Dimensions

2.02 Max.lifting height

4.04 Tyre size,rear

Other data

5.01 Service brake

5.02 Parking brake

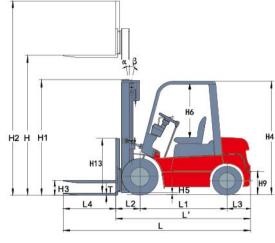
5.03 Fuel tank capacity

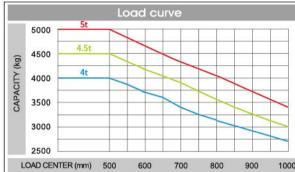
4.05 Double-tyre size (front/rear)

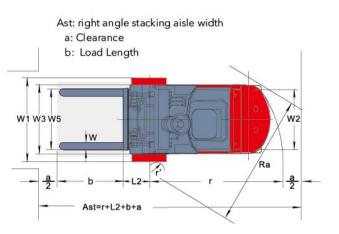
2.03 Height (mast lowered)

1.01 Manufacturer 1.02 Model

1.03 Power mode 1.04 Rated capacity







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.

Technical parameters						
Truck performance parame	ters					
Model		CPC40/45/50	CPC40/45/50	CPCD40/45/50	CPCD40/45/50	
Configuration number		QC5K2/QC7K2/XC5K2	QC4K2/QC8K2/XC6K2/WX8K2	QC5K2/QC7K2/XC7K2/WX7K2	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	400/	430	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 p	oarameters 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	CPC40~50-QC5K2 CPC40~50-QC4K2 CPCD40~50-QC5K2	24/80	62.5/2200	300/1600-1800	3.47	4-98x115	China III
Xinchang 4D35ZG31	498 electronic unit pump +supercharge	CPC40~50-XC5K2 CPC40~50-XC6K2 CPCD40~50-XC7K2	24/80	60/2200	300/1600-1800	3.47	4-98x115	China III
Xichai 4DX23-82GG3U	4102 electronic unit pump +supercharge and intercooler	CPC40~50-WX8K2 CPCD40~50-WX7K2	24/80	60/2200	320/1400-1700	3.85	4-102×118	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

4-5t Wide \	/iew Standar	d Mast							
Mast model	Max.lifting	Load cap	acity (load cent	ter 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 *3700	4000 *4200	4250 *4600	6546(6716)	6746(6916)	7006(7176)	3200	6°/6°
M500	5000	3200 *3400	3600 *4000	4000 *4200	6573(6743)	6773(6943)	7033(7203)	3325	6°/6°
M550	5500	2900	3200	3600	6679(6849)	6879(7049)	7139(7309)	3575	6°/6°
M600	6000	*3200 2600 *2900	*3600 3000 *3200	*3800 3300 *3600	6735(6905)	6935(7105)	7195(7365)	3825	6°/6°
- 1 * - 1 - f -									

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).

Mast model Max.lifting	Max.lifting	Load capa	acity (load cer	nter 500mm)	S	ervice weight		mast overall	free lifting	mast tilting
Mastinodet	height (mm)	4t	4.5t	5t	4t	4.5t	5t	height (fork to the ground)	height (with 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 *3400	3600 *4000	*5000 4000 *4200	6708(6878)	6908(7078)	7168(7338)	3305	2095	6°/6°
ZM550	5500	2900 *3200	3200 *3600	3600 *3800	6824(6994)	7024(7184)	7284(7454)	3555	2345	6°/6°
ZM600	6000	2600 *2900	*3000 *3200	*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) + 400 mm

-5t Full	Free 3-Stage	Mast								
model Max.lifting height (mm)	Max.lifting	Load capa	city (load cent	er 500mm)	s	ervice weight		mast overall height (fork to	free lifting height (with backrest)	mast tilting angle α/β
	height (mm)	CPC(D)40	CPC(D)45	CPC(D)50	CPC(D)40	CPC(D)45	CPC(D)50	the ground)		
SM360	3600	4000	4500	5000	6541(6711)	6741(6911)	7001(7171)	1940	710	6°/6°
SM392	3920	3840 *4000	4350 *4500	4800 *5000	6581(6751)	6781(6951)	7041(7211)	2050	820	6°/6°
SM400	4000	*4000 3840 *4000	*4500 4350 *4500	*5000 4800 *5000	6593(6763)	6793(6963)	7053(7223)	2080	850	6°/6°
SM435	4350	3500	4100	4400	6638(6808)	6838(7008)	7098(7268)	2190	960	6°/6°
SM450	4500	*3800 3350 *3500	*4300 4000 *4200	*4800 4200 *4700	6658(6828)	6858(7028)	7118(7288)	2240	1010	6°/6°
SM470	4700	3250	3800	4050	6684(6854)	6884(7054)	7144(7314)	2305	1075	6°/6°
SM480	4800	*3400 3150 *3300	*4000 3700 *3900	*4300 3950 *4100	6697(6867)	6897(7067)	7157(7327)	2340	1110	6°/6°
SM500	5000	3050 *3200	3400 *3800	3800 *4000	6737(6907)	6937(7107)	7197(7367)	2440	1210	6°/6°
SM540	5400	2750 *3000	3000 *3400	3500 *3700	6814(6984)	7014(7184)	7274(7444)	2575	1345	6°/6°
SM600	6000	2400 *2500	2800 *3000	3150 *3400	6922(7092)	7122(7292)	7382(7552)	2810	1580	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)+330mm

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