



Rim safety factor increased by **80%**



Mast (standard) visual field increased by **7%**



Lifting speed increased by **13%**



Engine water temperature drops by **10%**

### Reliability

Comprehensive upgrading of core components such as front and rear axles and mast

### Better performance

Overall improvement of operation efficiency

### More engine types

A variety of powerful engines are available

### More comfortable handling

Ergonomic optimization brings a new driving experience



Energy consumption reduced by **5%**



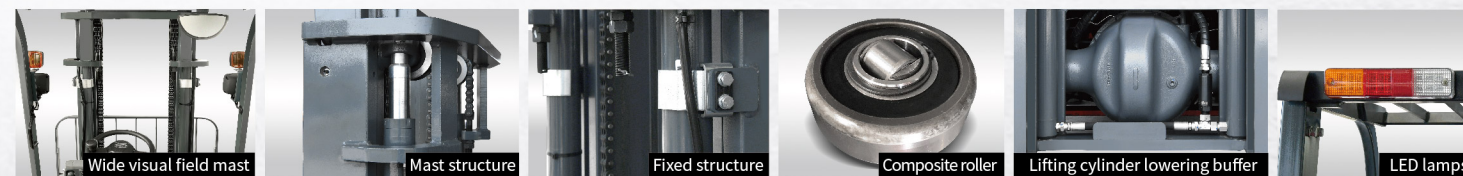
Steering angle increases by **4%**



Hydraulic oil temperature and transmission oil temperature decrease by **15%**



Mast (rubber hose pulley/block) visual field increased by **20%**



**Wide visual field mast**: The mast structure is optimized to improve the driver's visual field.  
**Mast structure**: The mast structure has more reasonable stress and improves the stiffness and strength.  
**Fixed structure**: The fixed structure of oil cylinder is optimized and more reliable.  
**Composite roller**: The design and application of composite roller can improve the lateral installation control accuracy of fork frame.  
**Lifting cylinder lowering buffer**: The lifting cylinder is equipped with lower buffer as standard, which makes the operation more comfortable. The main oil pipe of the mast is optimized, the structure is more reasonable and the pipeline connection is more reliable.  
**LED lamps**: The forklift is equipped with LED headlights and signal lights as standard, which are reliable, energy-saving, eye-catching and efficient to remind the personnel around the forklift.



**Small diameter steering wheel**: The small diameter steering wheel can greatly reduce the operation intensity of the driver's hands and shoulders and easily deal with various working conditions.  
**Eye catching instrument**: The new instrument is exquisite, dynamic and easy to read. The new fault code display function is added to control the forklift condition in real time.  
**Integrated handle switch**: The integrated handle switch greatly improves the driver's operation comfort and realizes one hand convenient control.  
**Ergonomic seat**: Ergonomic seat application enhances leg and lumbar support and effectively reduces driving fatigue.  
**Refueling structure**: The new refueling structure structural design can improve the hand operation space.  
**42 core connector**: Customized connector specifications form a standard, which makes the work more reliable and beautiful layout.

# HELI

K2 series 3-3.5t all-terrain forklift is specially designed for harsh working conditions. It can adapt to rough working conditions in stone market, wood market, cement product factory, construction market and other roads. At the same time, it is also suitable for wet and slippery road conditions. The appearance of the forklift is stronger and stronger. The core parts have been fully verified by the market and are mature and reliable. The whole machine integrates the design concepts of "safety", "reliability", "efficiency" and "comfort", integrates the latest technology, and highlights the characteristics of durability and high cost performance.

### Product features

- Compared with K2 series 3-3.5t internal combustion forklift, the parts have higher versatility and reduce the after-sales maintenance cost.
- With optimized transmission, the forklift has higher climbing performance and improves road trafficability.
- Front wheel drive and optional differential lock can improve off-road performance.
- The front wheel is equipped with off-road vacuum tire and the rear wheel engineering tire, which has strong road trafficability and smaller turning resistance;

### Reliability

- The visual field of the mast is upgraded. Regardless of the standard mast, two stage mast, triplex mast or rubber hose pulley group, the view field of the mast has been greatly improved, allowing you to have a comprehensive view.
- Optimize the main structure of the mast and the fixed structure of the oil cylinder, optimize the pipeline route, and apply the compound roller of the fork frame to make the overall structure more reasonable and safe.
- The hydraulic pressure joint adopts the double sealing structure of 24 degree cone + O-ring, which makes the disassembly more convenient, the sealing more reliable and durable, and avoids oil leakage.

### Energy efficient applications

- Increase the diameter of hydraulic pipeline, reduce the pressure loss of hydraulic system, improve the heat dissipation performance of hydraulic system by 15%, greatly improve the service life of hydraulic components and reduce the life cycle maintenance cost.
- The integral multi-way valve with optimized internal structure is applied to reduce the resistance of hydraulic system.
- LED lamps are equipped as standard, which are eye-catching, reliable and energy-saving. The protection grade of lamps is up to IP67.
- The brand-new LCD instrument has the characteristics of eye-catching and easy to read. It can display the engine fault code in real time and accurately grasp the operation status of forklift.

### Ergonomics

- Small diameter steering wheel, ultra-low torque steering gear, integrated handle switch and other technologies make the operation more efficient and convenient, greatly reduce the operation intensity and improve the convenience of driving operation.
- The lifting oil cylinder is equipped with lower buffer as standard, and the fork frame will automatically slow down when it drops to the ground, so as to increase the comfort of operation and reduce the impact of goods.
- Ergonomic seat application enhances leg and lumbar support and effectively reduces driving fatigue.

### Standard

Forks	High exhaust pipe
Water temperature meter	Transmission oil filter
Traction pin	Reversing buzzer
Blocking shelf	Transmission oil dipstick
Overhead guard	Hydraulic oil filter
Horn	Neutral safety switch
Reversing lamp	Top rain cover
Chronograph	Air intake device
Fuel gauge	Off road tread tire
Charging indicator	Parking brake
Toolbox	Hydraulic oil dipstick
Oil pressure alarm	Preheating indicator lamp
Turn indicator lamp	Fully-Hydraulic Power Steering System
Wide field mast	Mast lowering speed limit
Ergonomic seat	Cyclone air filter
Headlights	Adjustable steering wheel
Taillight	Electric flameout
Two piece multi way valve	Engine trouble lamp

### Optional

Differential lock
Cab
Heater
Speedometer
Fire Extinguisher
Solid tire
Rear headlight
Custom body colors

### Attachment

String
Hook
Sideshifter
Rotary fork
Crane
Extended fork
Rotary clamp
Widened fork frame
Tipping fork
Two stage fully free mast
Three stage fully free mast



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# HELI

## 3-3.5t K2 series all-terrain forklift (2WD)



www.helichina.com

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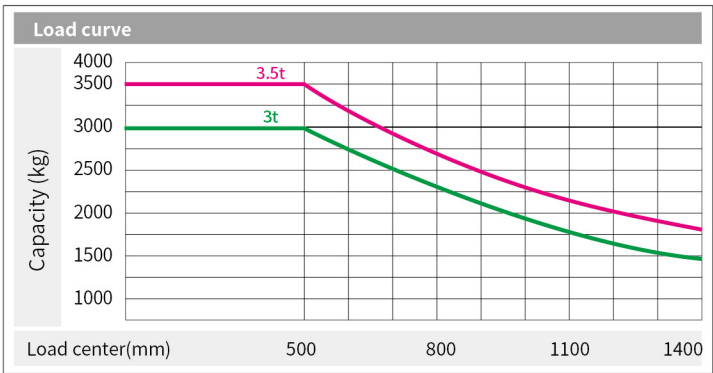
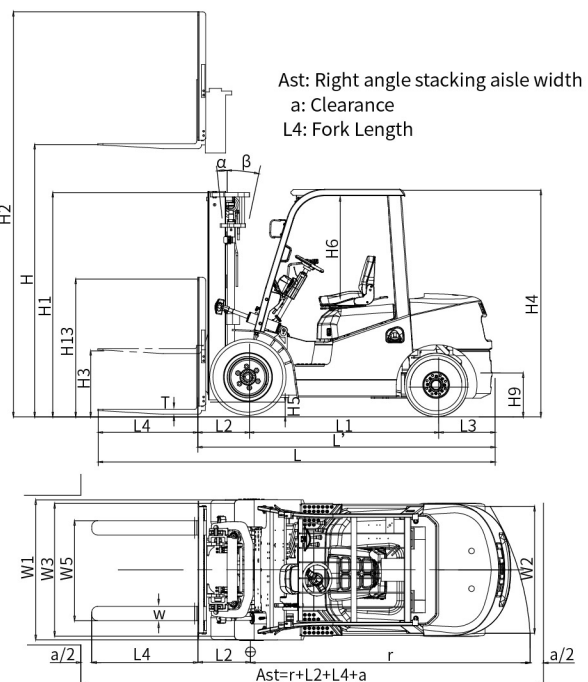
Manufacturer and technical parameters							
Character							
1.01	Manufacturer		<b>HELI</b>				
1.02	Model		CPC30-QC4GK2	CPCD30-QC4GK2	CPC35-QC4GK2	CPCD35-QC4GK2	
1.03	Rated Capacity	kg	3000	3000	3500	3500	
1.04	Load Center	mm	500	500	500	500	
1.05	Power Type		Diesel				
1.06	Operation Mode		Seat-type				
Dimensions							
2.01	Lifting Height(standard)	H	mm	3000	3000	3000	3000
2.02	Mast Overall Height (Fork to the ground and mast be vertical)	H1	mm	2180	2180	2230	2230
2.03	Max.Fork Lifting Height(With backrest)	H2	mm	4327	4327	4327	4327
2.04	Free Lift Height	H3	mm	155	155	160	160
2.05	Overall Height	H4	mm	2277	2277	2277	2277
2.06	Min.Groung Clearance(At the mast)	H5	mm	250	250	250	250
2.07	Distance From the Surface of the Seat to the Overhead Guard	H6	mm	1050	1050	1050	1050
2.08	Traction Pin Height	H9	mm	440	440	440	440
2.09	Backrest Height (Calculated from the surface of the fork)	H13	mm	1282	1282	1287	1287
2.10	Overall Length(With fork/Without fork)	(L/L')	mm	4124/3054	4124/3054	4129/3059	4129/3059
2.11	Wheel Base	L1	mm	1900	1900	1900	1900
2.12	Front Overhang	L2	mm	589	589	594	594
2.13	Rear Overhang	L3	mm	565	565	565	565
2.14	Overall Width	W1	mm	1601	1601	1601	1601
2.15	Tread (Front tread/Rear tread)	(W3/W2)	mm	1250/1250	1250/1250	1250/1250	1250/1250
2.16	Fork Adjustable Range (the external of the fork)(Max./Min.)	W5	mm	1160/250	1160/250	1160/250	1160/250
2.17	Min.Turning Radius(Exterior)	r	mm	3100	3100	3100	3100
2.18	Min.Turning Radius(Interior)	r'	mm	100	100	100	100
2.19	Min.Right Angle Stacking Aisle Width	Ra	mm	2800	2800	2800	2800
2.20	Mast Tilting Angle	$\alpha/\beta$	deg.	6°/12°	6°/12°	6°/12°	6°/12°
2.21	Fork Size	(L4xWxT)	mm	1070×125×45	1070×125×45	1070×125×50	1070×125×50

Performance							
3.01	Max.Traveling Speed (Loaded/Unloaded)	No differential lock With differential lock	km/h	19/19 20/24	19/19 19/19	19/19 20/24	19/19 19/19
3.02	Max.Gradeability (Loaded/Unloaded)	No differential lock With differential lock	%	20/25 18/22	20/25 17/25	17/25 16/22	17/25 17/25
3.03	Max.Drawbar Pull (Loaded/Unloaded)	No differential lock With differential lock	kN	20/16 20/16	20/16 20/16	20/17 20/17	20/17 20/17
3.04	Lifting Speed (Loaded/Unloaded)	/	mm/s	475/495	475/495	400/420	400/420
3.05	Lowng Speed (Loaded/Unloaded)	/	mm/s	500/450	500/450	500/450	500/450

Weight							
4.01	Total Weight	kg	4700	4700	5100	5100	
4.02	Weight Distribution Loaded (Front/Rear)	kg	6740/1010	6740/1010	7600/1000	7600/1000	
4.03	Weight Distribution Unloaded (Front/Rear)	kg	1910/2790	1910/2790	2040/3060	2040/3060	

Wheel and Tyre							
5.01	Wheel Number x = Drive Wheel (Front/Rear)		2X/2				
5.02	Tyre Type(Front/Rear)		Pneumatic Tyre				
5.03	Tyre Size(Front/Rear)		14-17.5-14PR/27x10-12NHS				
5.04	Service Brake		Hydraulic-Foot Pedal				
5.05	Parking Brake		Mechanical-Hand Lever				

Drive and Transmission Control Device (Standard configuration without differential lock, optional with differential lock)							
6.01	Battery(Voltage/Capacity)	V/Ah	12/80 (Optional 12/120)				
6.02	Engine Mode		QUANCHAI 4C4-50V31(VP pump)				
6.03	Engine Rated Power	kW/rpm	36.8/2500				
6.04	Engine Rated Torque	Nm/rpm	190-200/1800				
6.05	Engine Cylinder Number-Borexstroke		4-98×105/3.16				
6.06	Engine Fuel Tank Capacity	L	79				
6.07	Emission		China Stage III				
6.08	Tranmission Box Shifting Gears(Front/Rear type)		1- 1Power Shift T/M / T/M 2- 2 Manual Shift T/M				



**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.

### Truck main specifications and drive and transmission control device

Model		CPC30	CPCD30	CPC35	CPCD35	CPC30	CPCD30	CPC35	CPCD35
Max.Travelling speed (load/unload)	No Differential lock	19/19	19/19	19/19	19/19	19/19	19/19	19/19	19/19
	With Differential lock	20/24	19/19	20/24	19/19	20/24	19/19	20/24	19/19
Lifting Speed(load/unload)		475/495	475/495	400/420	400/420	475/495	475/495	400/420	400/420
Lowng Speed(load/unload)		500/450	500/450	500/450	500/450	500/450	500/450	500/450	500/450
Max.drawbar pull (load/unload)	No Differential lock	20/16	20/16	20/17	20/17	21/16	21/16	21/17	21/17
	With Differential lock	20/16	20/16	20/17	20/17	18/16	21/16	18/17	21/17
Max.Gradeability (load/unload)	No Differential lock	20/25	20/25	17/25	17/25	21/25	21/25	19/25	19/25
	With Differential lock	18/22	20/25	16/22	17/25	19/22	21/25	18/22	19/25
Drive and transmission control device									
Battery(Voltage/Capacity)	V/Ah	12/80				12/80			
Engine manufacturer/mode		XINCHANG 4D32G31(VP)				XINCHANG 4D32XG30(HPCR)			
Rated power/Speed	kW/rpm	36.8/2500				45/2500			
Max.torque/Speed	Nm/rpm	186/1600-1800				200/1800			
Cylinder number-bore x Stroke/Displacement	/L	4-98×105/3.16				4-98×105/3.16			
Engine fuel tank capacity	L	79				79			
Emission		China Stage III				China Stage III			
Transmission box shifting gears		1-1 Power Shift T/M / 2-2 Manual Shift T/M							

### Engine model and Main Specification for Option

Engine model	Configure Models	Rate power/Speed kW/rpm	Max.torque/Speed Nm/rpm	Engine displacement (L)	Cylinder number-BorexStroke	Emission
QUANCHAI V32-50V42(VP)	CPC(D)30/35-Q24GK2	36.8/2500	185/1500-1800	3.17	4-98x105	China Stage IV
QUANCHAI V32-50C42(HPCR)	CPC(D)30/35-Q17GK2	36.8/2500	200/1600-1800	3.17	4-98x105	China Stage IV
XINCHANG 4D32G31(VP)	CPC(D)30/35-XC32GK2	36.8/2500	186/1600-1800	3.17	4-98x105	China Stage IV
XINCHANG 4D32X41(HPCR)	CPC(D)30/35-XC24GK2	36.8/2500	210/1400-1600	3.17	4-98x105	China Stage IV
ISUZU GK-4JG2NFKC01(VE)	CPCD30/35-W15GK2	35/2450	170/1700	3.059	4-95.4-107	Euro Stage IIIA
ISUZU 4JG2PE-02(VE)	CPCD30-W8GK2 CPCD35-W4GK	44.9/2450	184.7/1700	3.059	4-95.4-107	Euro Stage II

### WIDE VIEW MAST

Mast model	Lifting height (mm)	Load capacity (load center 500mm) (kg)		Mast overall height (fork to the ground)(mm)		Service weight (kg)		Mast tilting angle (°) $\alpha/\beta$
		3t	3.5t	3t	3.5t	3t	3.5t	
M200	2000	3000	3500	1680	1730	4600	4990	6/12
M250	2500	3000	3500	1930	1980	4650	5050	6/12
M300	3000	3000	3500	2180	2230	4700	5100	6/12
M330	3300	3000	3500	2330	2380	4720	5130	6/12
M350	3500	3000	3500	2430	2480	4740	5150	6/12
M370	3700	3000	3500	2530	2580	4760	5170	6/12
M400	4000	2750	3100	2730	2780	4840	5260	6/12
M425	4250	2650	3000	2855	2905	4870	5280	6/6
M450	4500	2550	2850	2980	3030	4890	5310	6/6
M500	5000	2300	2350	3230	3280	4940	5360	6/6

### WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Lifting height (mm)	Load capacity (load center 500mm) (kg)		Mast overall height (fork to the ground) (mm)		Free lifting height (with backrest)(mm)		Service weight (kg)		Mast tilting angle (°) $\alpha/\beta$
		3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	
ZM200	2000	3000	3500	1680	1730	340	443	4620	5010	6/12
ZM250	2500	3000	3500	1930	1980	590	693	4670	5060	6/12
ZM300	3000	3000	3500	2180	2230	840	943	4720	5120	6/12
ZM330	3300	3000	3500	2330	2380	990	1093	4750	5150	6/12
ZM350	3500	3000	3500	2430	2480	1090	1193	4770	5170	6/12
ZM370	3700	3000	3500	2530	2580	1190	1293	4790	5190	6/12
ZM400	4000	2750	3100	2730	2780	1390	1493	4870	5270	6/12
ZM425	4250	2650	3000	2855	2905	1515	1618	4900	5300	6/6
ZM450	4500	2550	2850	2980	3030	1640	1743	4920	5330	6/6
ZM500	5000	2300	2350	3230	3280	1890	1993	4980	5390	6/6

### WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Lifting height (mm)	Load capacity (load center 500mm) (kg)		Mast overall height (fork to the ground)(mm)		Free lifting height (with backrest)(mm)		Service weight (kg)		Mast tilting angle (°) $\alpha/\beta$
		3t	3.5t	3t	3.5t	3t	3.5t	3t	3.5t	
ZSM360	3600	2800	3400	1980	1980	640	640	4840	5210	6/6
ZSM400	4000	2800	2950	2130	2130	790	790	4880	5250	6/6
ZSM435	4350	2600	2800	2230	2230	890	890	4910	5280	6/6
ZSM450	4500	2500	2700	2280	2280	940	940	4920	5290	6/6
ZSM470	4700	2450	2550	2340	2340	1000	1000	4940	5310	6/6
ZSM480	4800	2250	2450	2370	2370	1040	1040	4950	5320	6/6
ZSM500	5000	2150	2250	2480	2480	1140	1140	4980	5350	6/6

NO.	Characteristics	The standard configuration	Note
1	Series	K2 Series 3-3.5T Internal Combustion Forklift (High pass)	
2	Power	QUANCHAI 4C4-40V31(VP pump)	China Stage III
3	Braking mode	Human brake	
4	Mast form	basic	
5	Number of tires	A single 2 x2	
6	Tire form	Front off-road vacuum tyre/rear inflatable tyre	
7	Tilt angle	6°/12°	
8	Number of valve pieces	Two pieces of	
9	Thread type	Metric thread	
10	Warning light options	No warning lights	
11	Fork type	L=1070	
12	Cab options	No cab	
13	Configuration mode of drive axle	Drive axle is standard	
14	Configuration mode of hydraulic system	Standard hydraulic system	
15	Configuration form of steering system	Steering system is standard	

NO.	Characteristics	The standard configuration
16	Heating fan and air conditioning options	No heating fan, no air conditioning
17	Rearview mirror option	Equipped with rear view mirrors
18	Hose pulley block form	No hose pulley block
19	High exhaust option	High exhaust is standard
20	Muffler option	Impedance composite silencer
21	Air filter form	Common one stage dry air filter
22	Steering wheel options	Ball handle
23	Driving connection type	Rigid connection
24	Transmission type	Mechanical commutation
25	Rear headlight option	No rear headlights
26	Hand brake switch option	No hand brake switch installed
27	Folder	Configuration folder
28	Seat options	Ordinary seats
29	Differential lock	No differential lock