

CPC(D)20/25 /30/35/38



HELI



2-3.8 t

K2 series Internal Combustion
Counterbalanced Forklift Truck



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2-3.8 t

K2 series Internal Combustion Counterbalanced Forklift Truck

Reliability improved

- Casted steering axle
- Improved mast strength and rigidity
- Reduced front overhang improves truck stability.
- The sealing performance of drive axle is improved.
- Enhanced design of rim.
- The strength and rigidity of overhead guard are improved.
- The protection level of electric system is improved and the electrical parts adopts modular design.
- The 24° conical sealing is adopted on the hydraulic pipeline and the sealing performance is improved.
- The cooling performance of the truck is improved.
- The loading capacity of mast and frame is improved and the safety performance is improved.



Operation comfort improved

- The diameter of steering wheel is reduced to reduce arm fatigue.
- The space for pedal is enlarged.
- Seat is design with man-machine engineering.
- Backlight design of meter is easy to read and engine fault code is shown on the meter.
- The horizontal view of mast is improved.
- Lowering buffering is configured.
- Head space is enlarged.

The performance of easy maintenance is further improved

- The drive axle is improve to reduced maintenance frequency.
- Fault code is displayed on the meter to improve truck maintenance efficiency.
- Large opening angle of engine hood makes maintenance easier.
- The contact space between engine and transmission box is enlarged and it is easy for engine oil filter maintenance.
- Integrated electric box is easy for maintenance.
- The 24° conical sealing is adopted on hydraulic pipeline and it is easy for assembly and disassembly.



Better performance in energy saving and consumption reducing

- The oil consumption is reduced.
- The pressure loss is reduced.
- LED lights are standard.

The operation efficiency improved

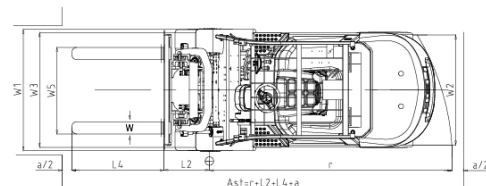
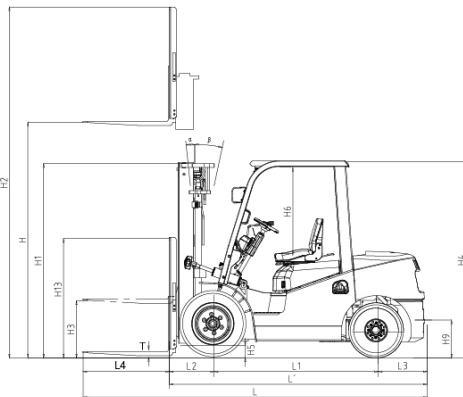
- The lifting speed improved.
- The steering radius is small.
- The lights switch is integrated on steering knob and it is convenient for operation.



HELI smart fleet management system (optional)

Vehicle positioning	Statistical form
Remote diagnosis	Vehicle management
Remote monitoring	Identification recognition (optional)
Maintenance reminder	Weight management (optional)
Battery management	Collision management (optional)

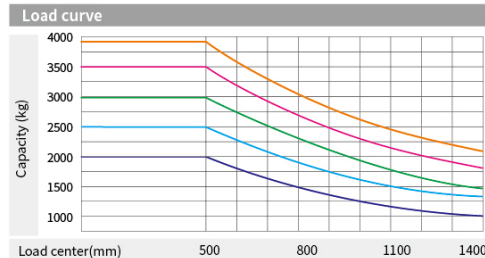
Manufacturer and technical parameters								
	Characteristics			HELI				
1.01	Manufacturer							
1.02	Model			CPC(D)20	CPC(D)25	CPC(D)30	CPC(D)35	CPC(D)38
1.03	Rated capacity		kg	2000	2500	3000	3500	3800
1.04	Load center		mm	500	500	500	500	500
1.05	Driving mode			Diesel				
1.06	Power type			Sit-on type				
	Dimensions							
2.01	Lifting height (standard)	H	mm	3000	3000	3000	3000	3000
2.02	Mast overall height (Fork to the ground and mast be vertical)	H1	mm	2000	2000	2070	2120	2180
2.03	Max.fork lifting height(With backrest)	H2	mm	4030	4030	4217	4217	4217
2.04	Free lift height	H3	mm	150	150	155	160	160
2.05	Overall height(Overhead guard)	H4	mm	2120	2120	2140	2140	2140
2.06	Min.ground clearance(At the mast)	H5	mm	115	115	135	135	135
2.07	Distance from the surface of the seat to the overhead guard	H6	mm	1050	1050	1050	1050	1050
2.08	Traction pin height	H9	mm	290	290	310	310	310
2.09	Backrest height (Calculated from the surface of the fork)	H13	mm	1000	1000	1182	1177	1177
2.10	Overall length(With fork/Without fork)	(L/L')	mm	3460/2540	3680/2610	3862/2792	3868/2798	3870/2800
2.11	Wheel base	L1	mm	1650	1650	1750	1750	1750
2.12	Front overhang	L2	mm	465	465	478	484	484
2.13	Rear overhang	L3	mm	425	495	564	564	565
2.14	Overall width	W1	mm	1160	1160	1225	1225	1225
2.15	Tread (Front tread/Rear tread)	(W3/W2)	mm	970/970		1000/970		1000/970
2.16	Fork adjustable range (the external of the fork)(Max./Min.)	W5	mm	1030/244	1030/244	1060/250	1060/250	1060/250
2.17	Min.turning radius(Exterior)	r	mm	2215	2270	2400	2400	2410
2.18	Min.turning radius(Interior)	r'	mm	35	35	80	80	80
2.19	Min.right angle stacking aisle width	Ra	mm	2235	2290	2360	2360	2420
2.20	Mast tilting angle (forward /rear)	α/β	deg.	6°/12°	6°/12°	6°/12°	6°/12°	6°/12°
2.21	Fork size	L4xWxT	mm	920x122x40	1070x122x40	1070x125x45	1070x125x50	1070x125x50
	Weight							
3.01	Total weight		kg	3300	3650	4270	4600	4750
3.02	Weight distribution loaded (Front/Rear)		kg	4710/590	5440/710	6430/840	7280/820	7710/840
3.03	Weight distribution unloaded (Front/Rear)		kg	1540/1760	1470/2180	1750/2520	1790/2810	1800/2950
	Wheel and tyre							
4.01	Wheel number x= drive wheel (Front/Rear)			2X/2				
4.02	Tyre type(Front/Rear)			Pneumatic tyre				
4.03	Tyre size(Front/Rear)			7.00-12-12PR/6.00-9-10PR	28x9-15-14PR/ 6.5-10-10PR	28x9-15-14PR/ 6.5-10-10PR	28x9-15-14PR/ 6.5-10-10PR	28x9-15-14PR/ 6.5-10-10PR
4.04	Service brake			Hydraulic-foot Pedel				
4.05	Parking brake			Mechanical-Hand lever				



RASA: Right angle stacking aisle width
a: Clearance
L4: Length of fork

Truck main specifications and drive and transmission control device 1									
Performance									
Model		CPC20	CPCD20	CPC25	CPCD25	CPC30	CPCD30	CPC35	CPCD35
Max. Travelling speed (loaded/unloaded)	km/h	18/18		18/18		18/19		18/19	
Lifting Speed (Loaded/Unloaded)	mm/s	500/550		500/550		475/495		400/420	
Lowing Speed (Loaded/Unloaded)	mm/s	450/500		450/500		450/500		450/500	
Max.drawbar pull (Loaded/Unloaded)	kN	17/12	17/12	18/12.5	18/12.5	19/15	19/16	19/14	19/16
Max.Gradeability (Loaded/Unloaded)	%	27/29	27/37	25/23	31/23	22/23	22/26	20/22	20/25
Drive and transmission control device									
Battery(Voltage/Capacity)	V/Ah	12/80							
Engine manufacturer / mode		XINCHANG 4D27XG40/505(High Fan;HPCR)							
Rated power/Speed	kW/rpm	36.8/2500							
Max. torque/Speed	Nm/rpm	165/1500~1800							
Cylinder number-Bore×Stroke/Displacement	/L	4-90x105/2.67							
Engine fuel tank capacity	L	70							
Emission		China Stage III							
Transmission box shifting gears		1-1 Power Shift T/M / 2-2 Manual Shift T/M							

Truck main specifications and drive and transmission control device 2									
Performance									
Model		CPC20	CPCD20	CPC25	CPCD25	CPC30	CPCD30	CPC35	CPCD35
Max. Travelling speed (loaded/unloaded)	km/h	18/18		18/18		19/19	19/19	19/19	19/19
Lifting Speed (Loaded/Unloaded)	mm/s	500/550		500/550		475/495		400/420	
Lowing Speed (Loaded/Unloaded)	mm/s	450/500		450/500		450/500		450/500	
Max.drawbar pull (Loaded/Unloaded)	kN	17/12	17/12	18/12.5	18/12.5	19/15	19/16	19/14	19/16
Max.Gradeability (Loaded/Unloaded)	%	27/29	27/37	25/23	31/23	22/23	22/26	20/22	20/25
Drive and transmission control device									
Battery(Voltage/Capacity)	V/Ah	12/80							
Engine manufacturer /mode		QUANCHAI 4C2-50C41 (High Fan;HPCR)							
Rated power/Speed	kW/rpm	36.8/2500							
Max. torque/Speed	Nm/rpm	170/1400-2000							
Cylinder number-Bore×Stroke/Displacement	/L	4-90x105/2.67							
Engine fuel tank capacity	L	70							
Emission		China Stage III/Beijing Stage IV							
Transmission box shifting gears		1-1 Power Shift T/M / 2-2 Manual Shift T/M							

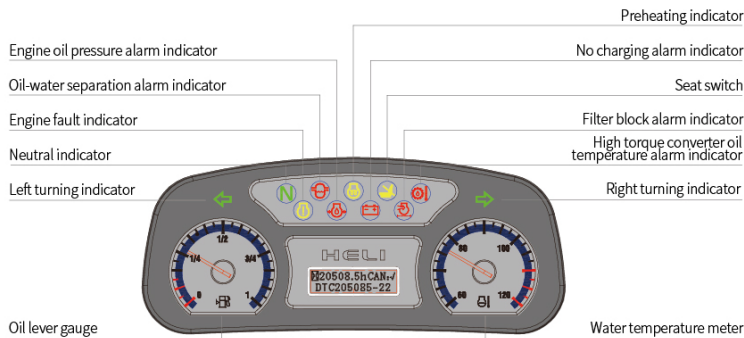


Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front of the fork. The base point of the standard load refers to the center position of the cube with 1000mm length of side. When mast is tilted forward, nonstandard fork usage 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.

Engine Model and Main Specification for Option

Engine model	Tonnage	Rated power/ Speed (Kw/rpm)	Max. torque/ Speed (Nm/rpm)	Engine displacement (L)	Cylinder number - BorexStroke	Emission
QUANCHAI 4C3-50V33(VE)	2-3.5 t	36.8/2500	174/1800	2.98	4-95X105	China Stage III
XINCHANG 4D29G31(High fan,VP)	2-3.8 t	36.8/2500	155/1700~1900	2.9	4-93X105	China Stage III
Mitsubishi s4s	2-3.5 t	35.3/2250	177/1700	3.331	4-94X120	Euro Stsge IIIA/China Stage III
QUANCHAI 4C2-50V33(High fan; VP)	2-3.8 t	36.8/2500	157/1800	2.85	4-93X105	China StageIII
QUANCHAI 4C4-63C31(High fan,HPCR)	2-3.8 t	46/2500	200/1500~1875	3.17	4-98X105	China StageIII
XINCHANG 4D29X41(High fan,HPCR)	2-3.8 t	36.8/2500	190/1600~1800	2.85	4-93X105	China Stage IV
XINCHANG 4D32X41(High fan,HPCR)	2-3.8 t	36.8/2500	210/1400~1600	3.17	4-98X105	China Stage IV
QUANCHAI V32-50C42(High fan,HPCR)	2-3.8 t	36.8/2500	200/1500~1800	3.17	4-98X105	China Stage IV
QUANCHAI V29-50C42 (High fan,HPCR)	2-3.8 t	36.8/2500	190/1500~1800	2.85	4-93X105	China Stage IV
QUANCHAI V29-50V42 (High fan,VP)	2-3.8 t	36.8/2500	170/1800	2.85	4-93X105	China Stage IV
QUANCHAI V32-50V42 (High fan,VP)	2-3.8 t	36.8/2500	190/1500~1800	3.17	4-98X105	China Stage IV
XINCHANG 4D29V41(High fan,VP)	2-3.8 t	36.8/2500	165/1600~1800	2.85	4-93X105	China Stage IV

Reliable special designed instrument



- Reliable special meter display the whole truck's working condition, fault detect and other important information completely which make the operator master the whole truck condition directly and conveniently.

WIDE VIEW MAST

Mast model	Max. lifting height mm	Load capacity (load center 500mm) (kg)					Mast overall height (fork to the ground) (mm)				Service weight (kg)					Mast tilting angle (°) α/β
		2t	2.5t	3t	3.5t	3.8t	2-2.5t	3t	3.5t	3.8t	2t	2.5t	3t	3.5t	3.8t	
M200	2000	2000	2500	3000	3500	3800	1500	1570	1620	1680	3210	3560	4170	4490	4640	6/12
M250	2500	2000	2500	3000	3500	3800	1750	1820	1870	1930	3260	3600	4220	4550	4700	6/12
M300	3000	2000	2500	3000	3500	3800	2000	2070	2120	2180	3300	3650	4270	4600	4750	6/12
M330	3300	2000	2500	3000	3500	3800	2150	2220	2270	2330	3330	3670	4290	4630	4780	6/12
M350	3500	2000	2500	3000	3500	3800	2250	2320	2370	2430	3350	3690	4310	4650	4800	6/12
M370	3700	2000	2500	3000	3500	3700	2350	2420	2470	2530	3360	3710	4330	4670	4820	6/12
M400	4000	1950	2350	2850	3500	3600	2550	2620	2670	2730	3440	3790	4410	4760	4910	6/12
M425	4250	1900	2200	2750	3100	3350	2675	2745	2795	2855	3460	3810	4440	4780	4930	6/6
M450	4500	1700	1950	2500	2950	3250	2800	2870	2920	2980	3490	3830	4460	4810	4960	6/6
M500	5000	1500	1700	2400	2850	3050	3120	3170	3230	3290	3530	3880	4510	4860	5010	6/6
M550	5500	*1600	*2000	*2400	*2500	-	3350	3420	3470	3530	3630	3970	4610	4970	5120	*6/6
M600	6000	*1500	*1800	*2200	*2300	-	3600	3670	3720	3780	3670	4020	4650	5020	5170	*6/6

Note: (1) *stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 2-3.5t truck is double tyre, the service weight of the truck is the weight in the table plus 110kg.

WIDE VIEW FULL FREE 2-STAGE MAST

Mast model	Max. 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 (°) α/β
		2t	2.5t	3t	3.5t	3.8t	2-2.5t	3t	3.5t	3.8t	2-2.5t	3t	3.5t	3.8t	2t	2.5t	3t	3.5t	3.8t	
ZM200	2000	2000	2500	3000	3500	3800	1500	1570	1620	1680	500	340	443	503	3240	3580	4190	4510	4660	6/12
ZM250	2500	2000	2500	3000	3500	3800	1750	1820	1870	1930	750	590	693	753	3290	3630	4240	4560	4710	6/12
ZM300	3000	2000	2500	3000	3500	3800	2000	2070	2120	2180	1000	840	943	1003	3330	3680	4290	4620	4770	6/12
ZM330	3300	2000	2500	3000	3500	3800	2150	2220	2270	2330	1150	990	1093	1153	3360	3710	4320	4650	4800	6/12
ZM350	3500	2000	2500	3000	3500	3800	2250	2320	2370	2430	1250	1090	1193	1253	3380	3730	4340	4670	4820	6/12
ZM370	3700	2000	2500	3000	3500	3700	2350	2420	2470	2530	1350	1190	1293	1353	3400	3750	4360	4690	4840	6/12
ZM400	4000	2000	2350	2850	3200	3500	2550	2620	2670	2730	1550	1390	1493	1553	3480	3820	4440	4770	4920	6/12
ZM425	4250	1900	2200	2750	3100	3350	2675	2745	2795	2855	1675	1515	1618	1678	3500	3850	4470	4800	4950	6/6
ZM450	4500	1700	2000	2550	2950	3250	2800	2870	2920	2980	1800	1640	1743	1803	3530	3870	4490	4830	4980	6/6
ZM500	5000	1500	1700	2400	2850	3050	3120	3170	3230	3290	2050	1890	1993	2053	3580	3920	4550	4890	5040	6/6
ZM550	5500	*1700	*2200	*2700	*2850	-	3350	3420	3470	3530	2350	2190	2293	2353	3680	4020	4650	4990	5140	*6/6
ZM600	6000	*1500	*1800	*2200	*2300	-	3600	3670	3720	3780	3500	2440	2543	2603	3730	4070	4700	5040	5190	*6/6

Note: (1) *stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 2-3.5t truck is double tyre, the service weight of the truck is the weight in the table plus 110kg.

WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. lifting height mm	Load capacity (load center 500mm) (kg)					Mast overall height (fork to the ground) (mm)			Free lifting height (fork to the backrest) (mm)			Service weight (kg)					Mast tilting angle (°) α/β
		2t	2.5t	3t	3.5t	3.8t	2-2.5t	3t/3.5t	3.8t	2-2.5t	3t/3.5t	3.8t	2t	2.5t	3t	3.5t	3.8t	
ZSM360	3600	2000	2400	2900	3500	3500	1800	1870	1930	800	640	700	3460	3800	4410	4710	4860	6/6
ZSM400	4000	1900	2400	2900	3050	3300	1950	2020	2055	950	790	825	3500	3840	4450	4750	4900	6/6
ZSM435	4350	1850	2150	2700	2900	3200	2050	2120	2180	1050	890	950	3530	3880	4480	4780	4930	6/6
ZSM450	4500	1700	1950	2600	2800	3150	2100	2170	2230	1100	940	1000	3540	3890	4490	4790	4940	6/6
ZSM470	4700	1800	1850	2550	2650	2900	2165	2230	2295	1165	1000	1065	3560	3910	4510	4810	4960	6/6
ZSM480	4800	1800	2300	2900	2900	2850	2210	2270	2330	1210	1040	1100	3580	3920	4520	4820	4970	6/6
ZSM500	5000	1400	1550	2350	2350	2600	2300	2370	2430	1300	1140	1200	3600	3940	4550	4850	5000	6/6
ZSM540	5400	1750	2000	2650	2750	2400	2400	2470	2555	1400	1240	1325	3630	3980	4580	4880	5030	6/6
ZSM600	6000	1400	1700	2100	2200	-	2600	2670	2780	1600	1440	1550	3730	4080	4680	4980	5130	6/6

Note: (1) *stands for the rated capacity when the front tyre is double-tyre. (2) When the front tyre of the 2-3.5t truck is double tyre, the service weight of the truck is the weight in the table plus 110kg.

Standard configuration	Optional	Available attachment
Fork	Filter core of transmission oil	Cab
Water temperature gauge	Backward buzzer	Speedometer
Traction pin	Transmission oil gauge	Fire extinguisher
Backrest	Filter of hydraulic oil circuit	Solid tyre
Overhead guard	Safety switch for neutral gear	Rear working light
Electric horn	Rain proof for overhead guard	Auxiliary pipe
Reversing light	Air intaking device	Suspension seat
Hour meter	Durable tyre with pattern	Custom paint
Fuel gauge	Cable type parking brake	Temperature gauge of transmission oil Heater
Charging indicator	Hydraulic oil gauge	High installed exhaust
Operator's tool kit	Preheating indicator	Sleeve of tilting cylinder
Oil pressure alarm	Full hydraulic powered steering	Smart fleet management system(optional)
Steering indicator	Flow regulator for lifting oil circuit	
Wide view mast	Levers for lifting and tilting	
Standard seat	Cyclone air cleaner	
Front lamp	Adjustable tilting steering column	
Rear combined light	Engine automatic preheating system	
Shaped pedal pad	Electric flameout	
Control valve (two throws)	Engine fault indicator	