

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

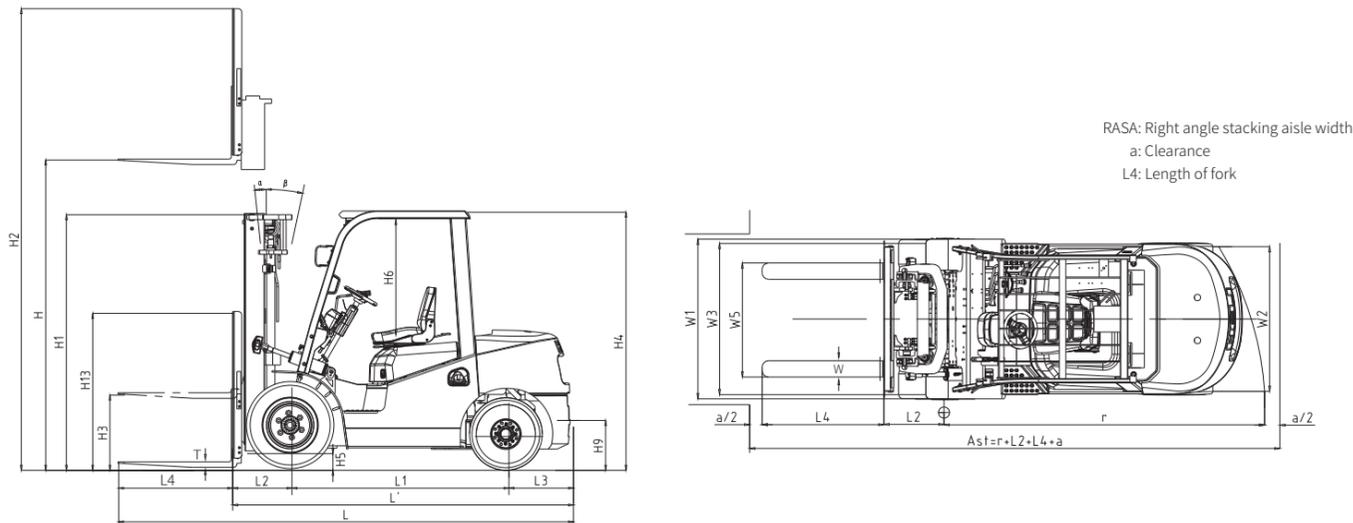
- The lifting speed improved.
- The steering radius is small.
- The lights switch is integrated on steering knob and it is convenient for operation.



HELI smart fleet management system (optional)

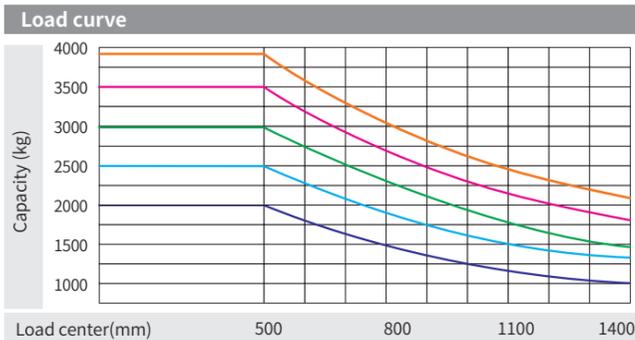
Vehicle positioning	Statistical form
Remote diagnosis	Vehicle management
Remote monitoring	Identification recognition (optional)
Maintenance reminder	Weight management (optional)
Battery management	Collision management (optional)

Manufacturer and technical parameters							
Characteristics							
1.01	Manufacturer	HELI					
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-ontype					
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	2000	2000	2070	2120
2.03	Max.fork lifting height(With backrest)	H2	mm	4030	4030	4217	4217
2.04	Free lift height	H3	mm	150	150	155	160
2.05	Overall height(Overhead guard)	H4	mm	2120	2120	2140	2140
2.06	Min.groung clearance(At the mast)	H5	mm	115	115	135	135
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	290	290	310	310
2.09	Backrest height (Calculated from the surface of the fork)	H13	mm	1000	1000	1182	1177
2.10	Overall length(With fork/Without fork)	(L/L')	mm	3460/2540	3680/2610	3862/2792	3868/2798
2.11	Wheel base	L1	mm	1650	1650	1750	1750
2.12	Front overhang	L2	mm	465	465	478	484
2.13	Rear overhang	L3	mm	425	495	564	565
2.14	Overall width	W1	mm	1160	1160	1225	1225
2.15	Tread (Front tread/Rear tread)	(W3/W2)	mm	970/970		1000/970	
2.16	Fork adjustable range (the external of the fork)(Max./Min.)	W5	mm	1030/244	1030/244	1060/250	1060/250
2.17	Min.turning radius(Exterior)	r	mm	2215	2270	2400	2410
2.18	Min.turning radius(Interior)	r'	mm	35	35	80	80
2.19	Min.right angle stacking aisle width	Ra	mm	2235	2290	2360	2420
2.20	Mast tilting angle (forward /rear)	α/β	deg.	6°/12°	6°/12°	6°/12°	6°/12°
2.21	Fork size	L4xWxT	mm	920x122x40	1070x122x40	1070x125x45	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	
4.04	Service brake	Hydraulic-foot Pedel					
4.05	Parking brake	Mechanical-Hand lever					



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	19/19	18/19	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	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								



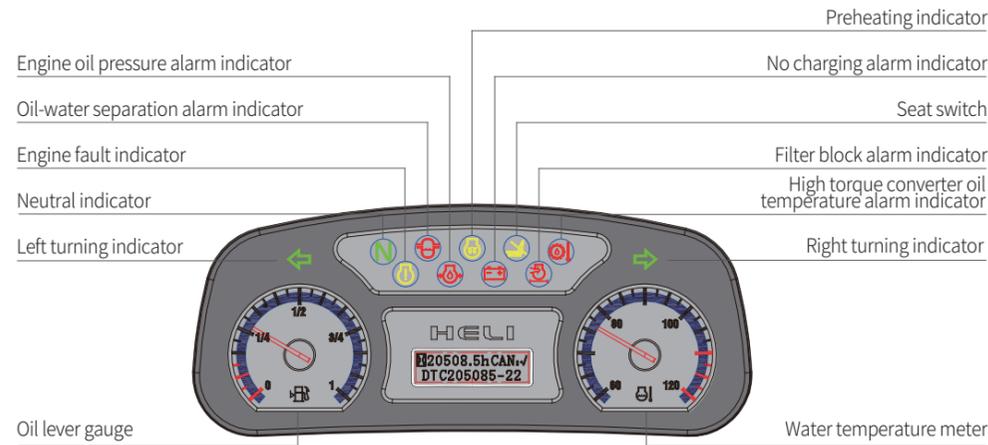
CPC20/CPCD20 CPC25/CPCD25 CPC30/CPCD30 CPC35/CPCD35 CPC38/CPCD38

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	4-95×105	China Stage III
XINCHANG 4D29G31(High Fan,VP)	2-3.8 t	36.8/2500	155/1700~1900	2.9	4-93×105	China Stage III
Mitsubishi s4s	2-3.5 t	35.3/2250	177/1700	3.331	4-94×120	Euro Stsge IIIA/China StageIII
QUANCHAI 4C2-50V33(High fan; VP)	2-3.8 t	36.8/2500	157/1800	2.85	4-93×105	China StageIII
QUANCHAI 4C4-63C31(High fan,HPCR)	2-3.8 t	46/2500	200/1500~1875	3.17	4-98×105	China StageIII
XINCHANG 4D29X41(High fan,HPCR)	2-3.8 t	36.8/2500	190/1600~1800	2.85	4-93×105	China Stage IV
XINCHANG 4D32X41(High fan,HPCR)	2-3.8 t	36.8/2500	210/1400~1600	3.17	4-98×105	China Stage IV
QUANCHAI V32-50C42(High fan,HPCR)	2-3.8 t	36.8/2500	200/1500~1800	3.17	4-98×105	China Stage IV
QUANCHAI V29-50C42 (High fan,HPCR)	2-3.8 t	36.8/2500	190/1500~1800	2.85	4-93×105	China Stage IV
QUANCHAI V29-50V42 (High fan,VP)	2-3.8 t	36.8/2500	170/1800	2.85	4-93×105	China Stage IV
QUANCHAI V32-50V42 (High fan,VP)	2-3.8 t	36.8/2500	190/1500~1800	3.17	4-98×105	China Stage IV
XINCHANG 4D29V41(High fan,VP)	2-3.8 t	36.8/2500	165/1600~1800	2.85	4-93×105	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.

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	Push-pull
Wide view mast	Levers for lifting and tilting	Tilting fork/bucket
Standard seat	Cyclone air cleaner	Wide view two stage free lift mast
Front lamp	Adjustable tilting steering column	Wide view three stage free lift mast
Rear combined light	Engine automatic preheating system	
Shaped pedal pad	Electric flameout	
Control valve (two throws)	Engine fault indicator	

2t/2.5t/3t Mast configuration table

Mast type	Mast model	Max. lifting height mm	Load capacity (load center 500mm) (kg)			Free lifting height (with backrest) (mm)				Mast overall height (mm)				Service weight (kg)			Mast tilting angle (°) α/β		
			2t	2.5t	3t	Without backrest		With backrest		Mast overall height (fork to the ground) (mm)		Fork to the top		2t	2.5t	3t			
						3.5t	3.8t	3.5t	3.8t	3.5t	3.8t	3.5t	3.8t						
WIDE VIEW MAST	M200	2000	2000	2500	3000	156	155	156	155	1500	1570	2663	2741	3039	3217	3210	3560	4170	6-12
	M250	2500	2000	2500	3000	156	155	156	155	1750	1820	3163	3241	3539	3717	3260	3600	4220	6-12
	M300	3000	2000	2500	3000	156	155	156	155	2000	2070	3663	3741	4039	4217	3300	3650	4270	6-12
	M330	3300	2000	2500	3000	156	155	156	155	2150	2220	3963	4041	4339	4517	3330	3670	4290	6-12
	M350	3500	2000	2500	3000	156	155	156	155	2250	2320	4163	4241	4539	4717	3350	3690	4310	6-12
	M370	3700	2000	2500	3000	156	155	156	155	2350	2420	4363	4441	4739	4917	3360	3710	4330	6-12
	M400	4000	2000	2500	3000	156	155	156	155	2550	2620	4663	4741	5039	5217	3440	3790	4410	6-12
	M425	4250	1900	2300	2900	156	155	156	155	2675	2745	4923	4991	5289	5467	3460	3810	4440	6-6
	M450	4500	1900	2300	2900	156	155	156	155	2800	2870	5163	5241	5539	5717	3490	3830	4460	6-12
	M500	5000	1650	1800	2550	156	155	156	155	3050	3120	5663	5741	6039	6217	3530	3880	4510	6-6
	M550	5500	1400	1500	2250	156	155	156	155	3350	3420	6163	6241	6539	6717	3630	3970	4610	6-6
	M600	6000	1700	2000	2650	156	155	156	155	3600	3670	6663	6741	7039	7217	3670	4020	4650	6-6
WIDE VIEW FULL FREE 2-STAGE MAST	ZM200	2000	2000	2500	3000	867	864	491	3388	1500	1570	2663	2735	3039	3211	3240	3580	4190	6-12
	ZM250	2500	2000	2500	3000	1117	1114	741	638	1750	1820	3163	3235	3539	3711	3290	3630	4240	6-12
	ZM300	3000	2000	2500	3000	1367	1364	991	888	2000	2070	3663	3735	4039	4211	3330	3680	4290	6-12
	ZM330	3300	2000	2500	3000	1517	1514	1141	1038	2150	2220	3967	4039	4343	4511	3360	3710	4320	6-12
	ZM350	3500	2000	2500	3000	1617	1614	1241	1138	2250	2320	4163	4235	4539	4711	3380	3730	4340	6-12
	ZM370	3700	2000	2500	3000	1717	1714	1341	1238	2350	2420	4363	4435	4739	4911	3400	3750	4360	6-12
	ZM400	4000	2000	2500	3000	1917	1914	1541	1438	2550	2620	4663	4735	5039	5211	3480	3820	4440	6-12
	ZM425	4250	1900	2300	2900	2042	2039	1666	1563	2675	2745	4914	4986	5290	5462	3500	3850	4470	6-6
	ZM450	4500	1800	2200	2850	2167	2164	1791	1688	2800	2870	5153	5235	5529	5711	3530	3870	4490	6-6
	ZM500	5000	1650	1800	2550	2417	2414	2041	1938	3050	3120	5663	5735	6039	6211	3580	3920	4550	6-6
	ZM550	5500	1400	1500	2250	2717	2714	2341	2238	3350	3420	6163	6235	6539	6711	3680	4020	4650	6-6
	ZM600	6000	1700	2000	2650	2967	2964	2591	2488	3600	3670	6663	6735	7039	7211	3730	4070	4700	6-6
WIDE VIEW FULL FREE 3-STAGE MAST	ZSM360	3600	2000	2500	3000	1147	1114	791	688	1800	1870	4283	4395	4639	4821	3460	3800	4410	6-6
	ZSM400	4000	2000	2500	3000	1297	1264	941	838	1950	2020	4683	4795	5039	5221	3500	3840	4450	6-6
	ZSM435	4350	1900	2300	2850	1397	1364	1041	938	2050	2120	5033	5145	5389	5571	3530	3880	4480	6-6
	ZSM450	4500	1850	2300	2800	1447	1414	1091	988	2100	2170	5183	5295	5539	5721	3540	3890	4490	6-6
	ZSM470	4700	1800	2350	2750	1512	1474	1156	1048	2165	2230	5377	5495	5733	5921	3560	3910	4510	6-6
	ZSM480	4800	1800	2300	2700	1557	1514	1201	1088	2210	2270	5483	5595	5839	6021	3580	3920	4520	6-6
	ZSM500	5000	1650	1800	2600	1647	1614	1291	1188	2300	2370	5683	5795	6039	6221	3600	3940	4550	6-6
	ZSM540	5400	1450	1550	2300	1747	1714	1391	1288	2400	2470	6083	6195	6439	6621	3630	3980	4580	6-6
	ZSM600	6000	1000	1050	1500	1947	1914	1591	1488	2600	2670	6683	6795	7039	7221	3730	4080	4680	6-6
	ZSM650	6500	1600	1800	2700	2147	2114	1791	1688	2800	2870	7183	7295	7539	7721	3790	4130	4740	6-6
	ZSM700	7000	400	450	700	2322	2289	1966	1863	2975	3045	7683	7795	8039	8221	3840	4180	4790	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.

3.5t/3.8t Mast configuration table

Mast type	Mast model	Max. lifting height mm	Load capacity (load center 500mm) (kg)		Free lifting height (with backrest) (mm)				Mast overall height (mm)				Service weight (kg)		Mast tilting angle (°) α/β		
			3.5t	3.8t	Without backrest		With backrest		Mast overall height (fork to the ground) (mm)		Fork to the top		3.5t	3.8t			
					3.5t	3.8t	3.5t	3.8t	3.5t	3.8t	3.5t	3.8t					
WIDE VIEW MAST	M200	2000	3500	3800	160	160	160	160	1620	1680	2791	2831	3217	3217	4490	4640	6-12
	M250	2500	3500	3800	160	160	160	160	1870	1930	3291	3331	3717	3717	4550	4700	6-12
	M300	3000	3500	3800	160	160	160	160	2120	2180	3791	3831	4217	4217	4600	4750	6-12
	M330	3300	3500	3800	160	160	160	160	2270	2330	4091	4131	4517	4517	4630	4780	6-12
	M350	3500	3500	3800	160	160	160	160	2370	2430	4291	4331	4717	4717	4650	4800	6-12
	M370	3700	3500	3800	160	160	160	160	2470	2530	4491	4531	4917	4917	4670	4820	6-12
	M400	4000	3500	3800	160	160	160	160	2670	2730	4791	4831	5217	5217	4760	4910	6-12
	M425	4250	3250	3650	160	160	160	160	2795	2855	5041	5081	5467	5467	4780	4930	6-6
	M450	4500	3100	3350	160	160	160	160	2920	2980	5291	5331	5717	5717	4810	4960	6-6
	M500	5000	2800	3100	160	160	160	160	3170	3230	5791	5831	6217	6217	4860	5010	6-6
	M550	5500	2350	2650	160	160	160	160	3470	3530	6291	6331	6717	6717	4970	5120	6-6
	M600	6000	1750	2200	160	160	160	160	3720	3780	6791	6831	7217	7217	5020	5170	6-6
WIDE VIEW FULL FREE 2-STAGE MAST	ZM200	2000	3500	3800	869	889	443	503	1620	1680	2785	2825	3211	3211	4510	4660	6-12
	ZM250	2500	3500	3800	1119	1139	693	753	1870	1930	3285	3325	3711	3711	4560	4710	6-12
	ZM300	3000	3500	3800	1369	1389	943	1003	2120	2180	3785	3825	4211	4211	4620	4770	6-12
	ZM330	3300	3500	3800	1519	1539	1093	1153	2270	2330	4085	4125	4511	4511	4650	4800	6-12
	ZM350	3500	3500	3800	1619	1639	1193	1253	2370	2430	4285	4325	4711	4711	4670	4820	6-12