



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



2-3.8t

K2 series Internal Combustion
Counterbalanced Forklift Truck

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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 designed 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 improved 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.



The operation efficiency improved

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



Better performance in energy saving and consumption reducing

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

Seat switch

Left turning indicator

No charging alarm indicator

Engine oil pressure alarm indicator

High torque converter
oil temperature alarm indicator

Oil-water separation alarm indicator

Neutral indicator

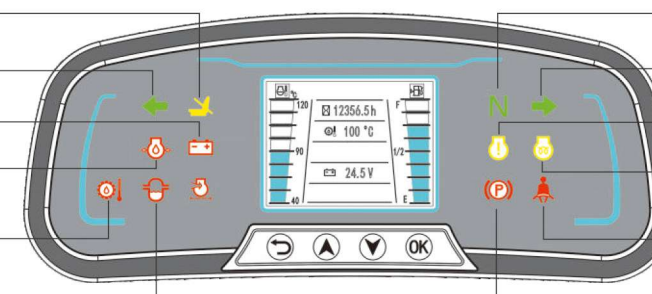
Right turning indicator

Engine fault indicator

Preheating indicator

Seat belt indicator

Hand brake



WIDE VIEW MAST

Mast model	Max.lifting height (mm)	Load capacity(kg) (load center 500mm)					Mast overall height (mm)				Mast tilting angle (front/rear)
		2t	2.5t	3t	3.5t	3.8t	2-2.5t	3t	3.5t	3.8t	
M300	3000	2000	2500	3000	3500	3800	1995	2065	2120	2120	6/12
M330	3300	2000	2500	3000	3500	3800	2145	2215	2270	2270	6/12
M350	3500	2000	2500	3000	3500	3800	2245	2315	2370	2370	6/12
M370	3700	2000	2500	3000	3500	3800	2345	2415	2470	2470	6-6 *6-6
M400	4000	2000	2500	3000	3300 *3500	3500 *3800	2545	2615	2670	2670	6-6 *6-6
M450	4500	1600 *1900	2100 *2400	2600 *3000	2900 *3100	3100 *3300	2795	2865	2920	2920	6-6 *6-6
M500	5000	1200 *1700	1600 *1900	2100 *2850	2400 *2750	2650 *2800	3045	3115	3170	3170	6-6 *6-6
M550	5500	950 *1500	1200 *1700	1650 *2400	1800 *2500	1900 *2600	3345	3415	3470	3470	*3-6
M600	6000	700 *1200	900 *1400	1200 *2100	1400 *2300	1500 *2400	3595	3665	3720	3720	*3-6

(1)The service weight is the weight of forklift with dual tyres: +110 kg;

(2)*Refers to the load capacity of forklift with dual tyres;

WIDE VIEW FULL FREE 2 STAGE MAST

Mast model	Max.lifting height (mm)	Load capacity(kg) (load center 500mm)					Mast overall height (mm)			Free lifting height (with backrest)			Mast tilting angle (front/rear)
		2t	2.5t	3t	3.5t	3.8t	2-2.5t	3t	3.5-3.8t	2-2.5t	3t	3.5-3.8t	
ZM300	3000	2000	2500	3000	3500	3800	1995	2065	2095	995	825	870	6/12
ZM330	3300	2000	2500	3000	3500	3800	2145	2215	2245	1145	975	1020	6/12
ZM350	3500	2000	2500	3000	3500	3800	2245	2315	2345	1245	1075	1120	6-6 *6-12
ZM400	4000	2000	2500	2700 *3000	3300 *3500	3500 *3800	2545	2615	2645	1545	1375	1420	6-6 *6-12
ZM450	4500	1800 *1900	2150 *2400	2400 *2700	2900 *3100	3100 *3300	2795	2865	2895	1795	1625	1670	6-6 *6-6
ZM500	5000	1500 *1700	1650 *2200	2000 *2400	2400 *2750	2650 *2800	3045	3115	3145	2045	1875	1920	*3-6

(1)2-2.5T: +435mm; Free lifting height (without backrest):2-2.5T: +435mm; 3-3.5T: +580mm;

(2) The service weight is the weight of forklift with dual tyres: +110 kg;

(3) *Refers to the load capacity of forklift with dual tyres;

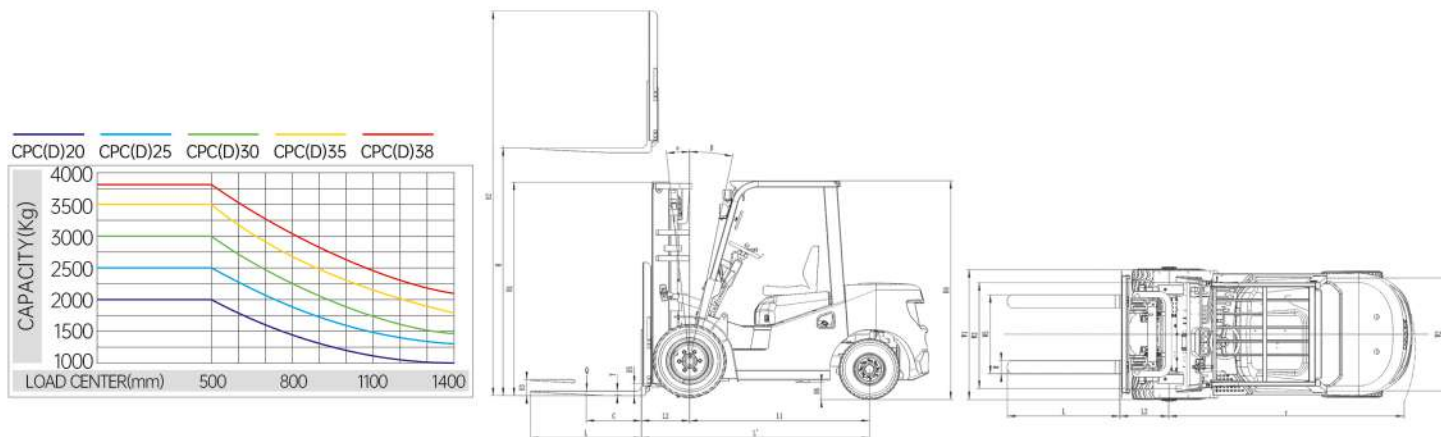
WIDE VIEW FULL FREE 3 STAGE MAST

Mast model	Max.lifting height (mm)	Load capacity(kg) (load center 500mm)					Mast overall height (mm)			Free lifting height (with backrest)			Mast tilting angle (front/rear)
		2t	2.5t	3t	3.5t	3.8t	2-2.5t	3t	3.5-3.8t	2-2.5t	3t	3.5-3.8t	
ZSM360	3600	2000	2500	3000	3500	3800	1695	1765	1820	655	528	588	6-6 *6-6
ZSM400	4000	2000	2500	3000	3500	3800	1830	1898	1953	778	661	721	6-6 *6-6
ZSM450	4500	1600 *1800	1700 *2200	2500 *2700	2800 *3000	2950 *3200	1995	2065	2120	995	828	888	6-6 *6-6
ZSM480	4800	1250 *1700	1500 *2000	2250 *2450	2500 *2750	2700 *3000	2095	2165	2220	1055	928	988	6-6 *6-6
ZSM500	5000	1100 *1600	1300 *1800	2100 *2300	2300 *2600	2450 *2700	2165	2232	2287	1121	995	1055	6-6 *6-6
ZSM550	5500	900 *1300	1100 *1600	1600 *2100	1700 *2300	1850 *2400	2330	2398	2453	1288	1161	1221	3-6 *3-6
ZSM600	6000	700 *1100	800 *1300	1200 *1900	1300 *2100	1400 *2200	2550	2615	2670	1505	1378	1438	3-6 *3-6

(1)2 2.5T: +435mm; Free lifting height (without backrest): 2 2.5T: +435mm; 3 3.5T: +580mm;

(2)The service weight is the weight of forklift with dual tyres: +110 kg;

(3)*Refers to the load capacity of forklift with dual tyres;



2.0-3.8T Diesel Forklift Optional Engines

Engine Model	Power/speed (kw/rpm)	Rated torque/speed (Nm/rpm)	Engine Displacement(L)	Cylinder number Bore x Stroke	Emission Standard
XINCHAI C490BPG	40/2650	160/1800 ~ 2000	2.67	4-90×105	Stage II
XINCHAI A495BPG	42/2500	174/1800-2000	2.977	4-95×105	Stage II
XINCHAI A498BPG	48/2500	193/1800 ~ 2000	3.168	4-98×105	Stage II
ISUZU C240PKJ-30	35.4/2500	137.7/1800	2.369	4-86×102	Stage IIIA
MITSUBISHI S4S-DPEU2	35.3/2250	177/1700	3.331	4-94×120	Stage IIIA
ISUZU 4JG2PE-01	46/2450	186/1700±100	3.059	4-95.4×107	Stage II
CUMMINS QSF2.8t3NA49	36.5/2500	186/1100-1700	2.8	4-94×100	Stage IIIA
CUMMINS QSF2.8t3NA60	43/2500	186/1100-1500	2.8	4-94×100	Stage IIIA
XINCHAI 3E22YG51	44.8/2400	210/1600-1800	2.23	3-94×107	Euro V
KUBOTA V2607-CR-E5B	38/2400	174.1/1500	2.615	4-87×110	Euro V/EPAT4F

Technical Datas													
Characteristics													
1.01	Model			CPC20	CPCD20	CPC25	CPCD25	CPC30	CPCD30	CPC35	CPCD35	CPC38	CPCD38
1.02	Rated capacity	Q	kg	2000		2500		3000		3500		3800	
1.03	Load center distance	C	mm	500		500		500		500		500	
1.04	Power type							Diesel					
1.05	Driving type							Seated					
1.06	Wheel base	L1	mm	1600		1600		1740		1740		1740	
Tyres													
2.01	Tyre type							Pneumatic					
2.02	Wheel number (front/rear)			2X / 2		2X / 2		2X / 2		2X / 2		2X / 2	
2.03	Front tread	W3	mm	970		970		1000		1000		1000	
2.04	Rear tread	W2	mm	970		970		970		970		970	
2.05	Tyre (front)			7.00-12-12PR		7.00-12-12PR		28X9-15-12PR		28X9-15-12PR		28X9-15-12PR	
2.06	Wheel center high (front)		mm	325		325		340		340		340	
2.07	Tyre (rear)			6.00-9-10PR		6.00-9-10PR		6.50-10-10PR		6.50-10-10PR		6.50-10-10PR	
2.08	Wheel center high (rear)		mm	250		250		270		270		270	
Size													
3.01	Front overhang	L2	mm	459		459		469		487		489	
3.02	Mast tilting angle, front/rear	α/β	°	6/12		6/12		6/12		6/12		6/12	
3.03	Height with mast retraction	H1	mm	2000		2000		2065		2120		2120	
3.04	Free lifting height	H3	mm	150		150		150		150		150	
3.05	Max. lifting height	H	mm	3000		3000		3000		3000		3000	
3.06	Max. height after lifting	H2	mm	4042		4042		4250		4250		4250	
3.07	Overhead guard height	H4	mm	2070		2120		2140		2090		2090	
3.08	Fork size: length x width x	LxWxT	mm	920x100x40		1070x120x40		1070x125x45		1070x125x50		1070x125x50	
3.09	Overall length (fork excluded)	L'	mm	2530		2600		2770		2770		2770	
3.10	Overall width	W1	mm	1160		1160		1225		1225		1225	
3.11	Min.turning radius (Exterior)	r	mm	2180		2240		2400		2400		2410	
3.12	Min.turning radius (Interior)	r'	mm	35		35		80		80		80	
3.13	Ground clearance of mast	H5	mm	110		110		120		120		120	
3.14	Ground clearance of wheel base	H6	mm	118		118		143		143		143	
3.15	Lateral fork adjustment	W5	mm	1024/200		1024/240		1060/250		1060/250		1060/250	
Performance													
4.01	Travelling speed		km/h	17/19		17/19		18/19.5		18/19.5		17/19.5	
4.02	Lifting speed (loaded/unloaded)		mm/s	500/550		500/550		470/520		390/400		380/400	
4.03	Lowering speed		mm/s	450/550		450/550		450/550		450/550		450/550	
4.04	Max. Gradeability		%	27/25	27/27	25/23	25/23	21/22	21/23	20/22	20/23	18/20	18/22
4.05	Max. drawbar pull		KN	17/12	17/12	18/12.5	18/12.5	19/15	19/16	19/14	19/16	19/14	19/16
Weight													
5.01	Total weight		kg	3300		3650		4210		4560		4750	
5.02	Axle load (loaded), front/rear		kg	4710/590		5440/710		6420/830		7280/820		7710/840	
5.03	Axle load (unloaded), front/rear		kg	1540/1760		1470/2180		1740/2510		1790/2810		1800/2950	
Combustion engine													
6.01	Engine manufacturer /Model			XINCHAI 3E22YG51									
6.02	Rated power /Speed		Kw/rpm	44.8/2400									
6.03	Max. torque /Speed		Nm/rpm	210/1600 -1800									
6.04	Cylinder number -bore×stroke			3-94×107									
6.05	Engine displacement		L	2.23									
6.06	Emission			Euro V									
Transmission													
7.01	Transmission gears (front/rear)			1-1 Power Shift 2-2 Manual Shift									
7.02	Fuel tank capacity		L	60									
Additional data													
8.01	Service brake / parking brake			Hydraulic/Mechanical									
8.02	Hydraulic system working		Mpa	17.5									

Standard configuration		Optional	Available attachment
Fork	Filter core of transmission oil	Cab	Carpet boom
Water temperature gauge	Backward buzzer	Speedometer	Lifting hook
Traction pin	Transmission oil gauge	Fire extinguisher	Side shifter
Backrest	Filter of hydraulic oil circuit	Solid tyre	Paper roll clamp
Overhead guard	Safety switch for neutral gear	Rear working light	Rotating fork
Electric horn	Air intaking device	Auxiliary pipe	Cargo boom
Reversing light	Durable tyre with pattern	Suspension seat	Lengthen fork
Hour meter	Cable type parking brake	Custom paint	Multi-function drum clamp
Fuel gauge	Hydraulic oil gauge	Temperature gauge of transmission oil Heater	Rotating clamp
Charging indicator	Preheating indicator	High installed exhaust	Widen fork carrier
Operator's tool kit	Full hydraulic powered steering	Sleeve of tilting cylinder	Lengthen fork extension
Oil pressure alarm	Flow regulator for lifting oil circuit	Rain proof for overhead guard	Load stabilizer
Steering indicator	Levers for lifting and tilting		Push-pull
Wide view mast	Cyclone air cleaner		Tilting fork/bucket
Standard seat	Adjustable tilting steering column		Wide view two stage free lift mast
Front lamp	Engine automatic preheating system		Wide view three stage free lift mast
Rear combined light	Electric flameout		
Shaped pedal pad	Engine fault indicator		
Control valve (two throws)			

