



SOLID TO SUCCEED



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徐工叉车官网
XCMG forklift official website



叉装之王微商城
"King of Forklift/Loader" micro mall



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2023年第一版



2.0-3.8t

Kun-Peng Series Electric Counterbalanced Forklift (dual drive)

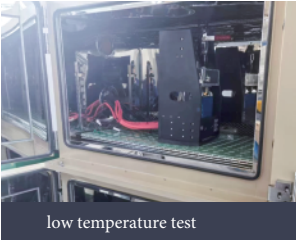


 **徐州徐工特种工程机械有限公司**
XCMG Special Construction Machinery Co., Ltd.

Steady, Reliable and Durable

• **Critical components are market-tested** Drive axles, steering axles and masts have a large market share and are reliable and durable.

• **Severe test verification of lithium batteries** Protection level $\geq$ IP67; the use of active equalization BMS technology can effectively reduce the battery pressure difference, improve the consistency of the battery, and significantly improve battery life.



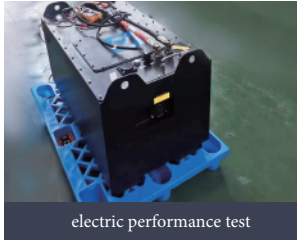
low temperature test



rainfall test



vibration test



electric performance test

• **High Environmental Adaptation** The whole machine has passed all the strict tests to meet the different needs of customers.



Overall forklifts pass IPX4 waterproof tests



Wading Test



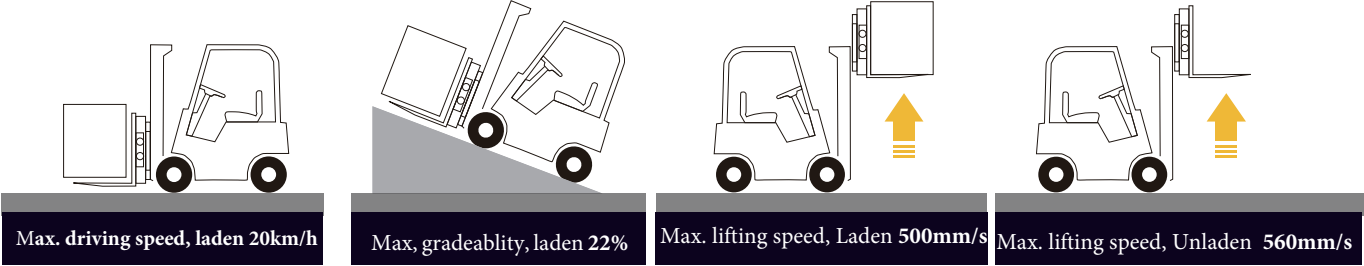
Climbing Test



Stability Test

Comfortable, Practicable and Handy

• **High-efficiency** Kung-Peng Dual Drive Type G, high overall performance



P.s.: display data only suitable for XCB30-LW7-G model , for other data please check technical data sheet.

• **Lead-acid and lithium battery share unified frame** Easy for switching batteries; the same capacity lithium batter can be used in different tonnage forklifts



• **Unlimited cruising ability** lead-acid and lithium battery can be fast replaced, handy for multiple working schedules or battery charging free area.



Technical parameter table

				Dual Drive 1					Dual Drive 2	
Features	1.1	Manufacturer		XCMG						
	1.2	Model		XCB20	XCB25	XCB30	XCB35	XCB38	XCB30	XCB35
	1.2a	Configuration Number		PW7-G PW2-G	PW7-G PW2-G	PW7-G PW2-G	PW7-G PW2-G	PW7-G LW2-G	PWJ2-G	PWJ2-G
	1.3	Power Type		Lead-acid Battery						
	1.4	Operation Type		Sit down Type						
	1.5	Rated load Capacity	Q(kg)	2000	2500	3000	3500	3800	3000	3500
	1.6	Load Center	c(mm)	500						
	1.8	Front Overhanging Distance	x(mm)	457		463	468		463	468
	1.9	Wheel Base	y(mm)	1585		1730		1760	1750	1730
Weight	2.1	Weight(included battery)	(kg)	4160	4540	5075	5510	5660	5160	5660
	2.2	Axle Full Load, front/rear	(kg)	5335/825	6200/840	7095/980	7990/1010	8425/1065	7210/950	8010/1150
	2.3	Axle Rear Load, front/rear	(kg)	2130/2030	2190/2350	2435/2640	2510/3000	2520/3170	2470/2690	2590/3070
Wheels	3.1	Tires Type, front/rear		Solid Tires/ Solid Tires						
	3.2	Tires Size, front		23×9-10		23×10-12				
	3.3	Tires Size, rear		18×7-8			200/50-10			
	3.5	Tires Number, front/rear(x= driving wheels)		2x/2						
	3.6	Wheel Distance, front	b10(mm)	1085		1110				
	3.7	Wheel Distance, rear	b11(mm)	1010			1000			
	Dimensions	4.1	Mast Tilting Angle, front/rear	a/b(°)	6/8					
4.2		Mast Retraction Height	h1(mm)	2085		2145	2195		2145	2195
4.3		Mast Free Lifting Height	h2(mm)	145			150		145	150
4.4		Max Lifting Height	h3(mm)	3000						
4.5		Mast Max Height	h4(mm)	4025		4217				
4.7		Roof Protection Height	h6(mm)	2180					2265	
4.8		Seat to Ground Height	h7(mm)	1204					1297	
4.12		Traction Pin Height	h10(mm)	332						
4.19		Overall Length(include forks)	l1(mm)	3278	1070	3580	1070	3612	3600	3605
4.20		Overall Length(without forks)	l2(mm)	2358		2515		2542	2530	2535
4.21		Overall width	b1(mm)	1282		1360				
4.22		Fork Size (Thickness/Width/Length)	s/e/l(mm)	40/122/920	40/122/1070	45/125/1070	50/125/1070	50/125/1070	45/125/1070	50/125/1070
4.23		Fork Carriage ISO2328		2A		3A				
4.24		Width of rack	b3(mm)	1100						
4.31		Mast Ground Clearance, full-load	m1(mm)	130						
4.32		Wheelbase Center Ground Clearance, full-load	m2(mm)	135						
4.33		Right Angel Aisle Width, pallet 1000x1200	Ast(mm)	3643		3773		3803	3793	
4.34		Right Angel Aisle Width, pallet 800x1200	Ast(mm)	3827		3957		3987	3977	
4.35		Outside Turning Radius	Wa	1970		2100		2130	2120	
Performance	5.1	Driving Speed, full-load/ empty-load	(km/h)	20/20						
	5.2	Lifting Speed, full-load/ empty-load	(m/s)	0.5/0.6		0.5/0.56	0.44/0.54	0.38/0.54	0.5/0.56	0.44/0.54
	5.3	Lowering Speed, full-load/ empty-load	(m/s)	0.45/0.50		0.47/0.5				
	5.6	Max Traction, full-load	(N)	22000	22500	25000	23000	22800	25000	
	5.8	Max Gradeability, full-load/ empty-load	(%)	26/29	25/29	22/29	20/25	19/22	22/30	20/25
	5.9	Accelaration time(10 meters), full-load/ empty-load(s)		5/4.5					5/4.5	
	5.10	Service Brake/ Park Brake		Hydraulic/ Mechnaic						
Drive	6.1	Power of Traction Motor	(kW)	10×2						
	6.2	Power of Lifting Motor	(kW)	26						
	6.3	Batttery, DIN43531/35/36 A,B,C A,B,C,no		DIN43536A						
	6.4	Battery Capacity	(V/Ah)	80/420		80/560			80/700	
	6.5	Battery Weight(±5%)	(kg)	1140		1480			1750	
Others	8.1	Controllor Type		MOS Tube/AC						
	8.2	Attachment Operation Pressure	(MPa)	21.5						

				Dual Drive 1					Dual Drive 2	
Features	1.1	Manufacturer		XCMG						
	1.2	Model		XCB20	XCB25	XCB30	XCB35	XCB38	XCB30	XCB35
	1.2a	Configuration Number		LW7-G LW2-G	LW7-G LW2-G	LW7-G LW2-G	LW7-G LW2-G	LW7-G LW2-G	LWJ2-G	LWJ2-G
	1.3	Power Type		Lithium Battery						
	1.4	Operation Type		SitdownType						
	1.5	Rated load Capacity	Q(kg)	2000	2500	3000	3500	3800	3000	3500
	1.6	Load Center	c(mm)	500						
	1.8	Front Overhanging Distance	x(mm)	457		463	468	468	463	468
	1.9	Wheel Base	y(mm)	1585		1730		1760	1750	1730
Weight	2.1	Weight(included battery)	(kg)	4160	4540	4930	5365	5515	5160	5660
	2.2	Axle Full Load, front/rear	(kg)	5335/825	6200/840	7035/895	7885/980	8330/985	7210/950	8010/1150
	2.3	Axle Rear Load, front/rear	(kg)	2130/2030	2190/2350	2375/2555	2450/2915	2435/3080	2470/2690	2590/3070
Wheels	3.1	Tires Type, front/rear		SolidTires/SolidTires						
	3.2	Tires Size, front		23×9-10		23×10-12				
	3.3	Tires Size, rear		18×7-8			200/50-10			
	3.5	Tires Number, front/rear(x= driving wheels)		2x/2						
	3.6	Wheel Distance, front	b10(mm)	1085		1110				
	3.7	Wheel Distance, rear	b11(mm)	1010			1000			
Dimensions	4.1	Mast Tilting Angle, front/rear	a/b(°)	6/8						
	4.2	Mast Retraction Height	h1(mm)	2085		2145	2195	2195	2145	2195
	4.3	Mast Free Lifting Height	h2(mm)	145			150		145	150
	4.4	Max Lifting Height	h3(mm)	3000						
	4.5	Mast Max Height	h4(mm)	4025		4217				
	4.7	Roof Protection Height	h6(mm)	2180					2265	
	4.8	Seat to Ground Height	h7(mm)	1204					1297	
	4.12	Traction Pin Height	h10(mm)	332						
	4.19	Overall Length(include forks)	l1(mm)	3278	1070	3580	1070	3612	3605	1070
	4.20	Overall Length(without forks)	l2(mm)	2358		2515		2542	2535	
	4.21	Overall width	b1(mm)	1282		1360				
	4.22	Fork Size (Thickness/Width/Length)	s/e/l(mm)	40/122/920	40/122/1070	45/125/1070	50/125/1070	50/125/1070	45/125/1070	50/125/1070
	4.23	Fork Carriage ISO2328		2A		3A				
	4.24	Width of rack	b3(mm)	1100						
	4.31	Mast Ground Clearance, full-load	m1(mm)	130						
	4.32	Wheelbase Center Ground Clearance, full-load	m2(mm)	135						
	4.33	Right Angel Aisle Width, pallet 1000x1200	Ast(mm)	3643		3773		3803	3793	
	4.34	Right Angel Aisle Width, pallet 800x1200	Ast(mm)	3827		3957		3987	3977	
	4.35	Outside Turning Radius	Wa	1970		2100		2130	2120	
Performance	5.1	Driving Speed, full-load/ empty-load	(km/h)	20/20						
	5.2	Lifting Speed, full-load/ empty-load	(m/s)	0.5/0.6		0.5/0.56	0.44/0.54	0.38/0.54	0.5/0.56	0.44/0.54
	5.3	Lowering Speed, full-load/ empty-load	(m/s)	0.45/0.50		0.47/0.5				
	5.6	Max Traction, full-load	(N)	22000	22500	25000	23000	22800	23000	23000
	5.8	Max Gradeability, full-load/ empty-load	(%)	26/29	25/29	22/30	20/25	19/22	22/30	20/25
	5.9	Accelaration time(10 meters), full-load/ empty-load(s)		5/4.5					5/4.5	
	5.10	Service Brake/ Park Brake		Hydraulic/ Mechnaic						
Drive	6.1	Power of Traction Motor	(kW)	10×2						
	6.2	Power of Lifting Motor	(kW)	26						
	6.3	Batttery, DIN43531/35/36 A,B,C A,B,C,no		—					DIN43536A	
	6.4	Battery Capacity	(V/Ah)	80/350		80/412			80/560	
	6.5	Battery Weight(±5%)	(kg)	380		390			1750	
Others	8.1	Controller Type		MOSTube/AC						
	8.2	Attachment Operation Pressure	(MPa)	21.5						

Mast Parameters

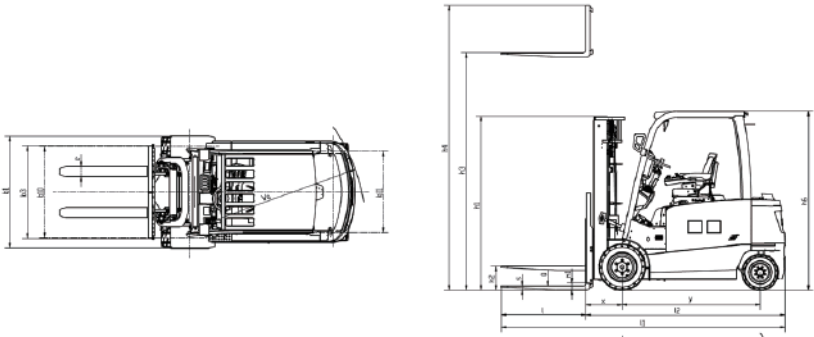
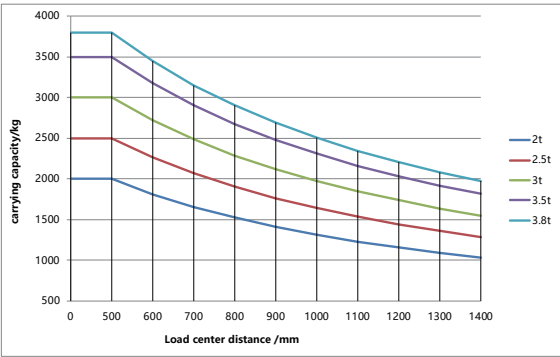
Wide field of view, standard type mast: 2t, 2.5t, 3t, 3.5t, 3.8t													
Mast Model	Maximum lift height (mm)	carrying capacity(Load center distance 500mm)(kg)					Full height of mast (forks on the ground, mast vertical) (mm)			Free lift height (with load backrest)(mm)			Mast tilt angle α/β(°)
		2t	2.5t	3t	3.5t	3.8t	2t-2.5t	3t	3.5t-3.8t	2t-2.5t	3t	3.5t-3.8t	2-3.8t
M200	2000	2000	2500	3000	3500	3800	1590	1645	1695	146	145	150	6/8
M250	2500	2000	2500	3000	3500	3800	1840	1895	1945	146	145	150	6/8
M300	3000	2000	2500	3000	3500	3800	2090	2145	2195	146	145	150	6/8
M330	3300	2000	2500	3000	3500	3800	2240	2295	2345	146	145	150	6/8
M350	3500	2000	2500	3000	3500	3800	2340	2395	2445	146	145	150	6/8
M370	3700	2000	2500	3000	3500	3800	2440	2495	2545	146	145	150	6/5
M400	4000	2000	2500	3000	3500	3800	2640	2695	2745	146	145	150	6/5
M425	4250	1950	2450	2900	3350	3550	2765	2820	2870	146	145	150	6/5
M450	4500	1900	2400	2800	3200	3350	2890	2945	2995	146	145	150	6/5
M500	5000	1850	2150	2500	2900	3000	3140	3195	3245	146	145	150	6/5
M550	5500	1600	1800	2400	2500	2700	3440	3495	3545	146	145	150	3/5
M600	6000	1300	1400	1700	1900	2200	3690	3745	3795	146	145	150	3/5

Wide field of view two-stage full free mast: 2t, 2.5t, 3t, 3.5t, 3.8t													
Mast Model	Maximum lift height (mm)	carrying capacity(Load center distance 500mm)(kg)					Full height of mast (forks on the ground, mast vertical) (mm)			Free lift height (with load backrest)(mm)			Mast tilt angle α/β(°)
		2t	2.5t	3t	3.5t	3.8t	2t-2.5t	3t	3.5t-3.8t	2t-2.5t	3t	3.5t-3.8t	2-3.8t
F200	2000	2000	2500	3000	3500	3800	1515	1565	1615	511	383	338	6/8
F250	2500	2000	2500	3000	3500	3800	1765	1815	1865	761	633	588	6/8
F300	3000	2000	2500	3000	3500	3800	2015	2065	2115	1011	883	838	6/8
F330	3300	2000	2500	3000	3500	3800	2165	2215	2265	1161	1033	988	6/8
F350	3500	2000	2500	3000	3500	3800	2265	2315	2365	1261	1133	1088	6/8
F370	3700	2000	2500	3000	3500	3800	2365	2415	2465	1361	1233	1188	6/5
F400	4000	2000	2500	3000	3500	3800	2565	2615	2665	1561	1433	1388	6/5

2.0-2.5t: without load backrest, the free lift height increases by 385mm
3.0t: without load backrest, the free lift height increases by 491mm
3.5t-3.8t: without load backrest, the free lift height increases by 441mm

Wide field of view three-stage full free mast: 2t, 2.5t, 3t, 3.5t, 3.8t													
Mast Model	Maximum lift height (mm)	carrying capacity(Load center distance 500mm)(kg)					Full height of mast (forks on the ground, mast vertical) (mm)			Free lift height (with load backrest)(mm)			Mast tilt angle α/β(°)
		2t	2.5t	3t	3.5t	3.8t	2t-2.5t	3t	3.5t	2t-2.5t	3t	3.5t	2-3.8t
T360	3600	2000	2500	3000	3500	3800	1855	1930	1930	846	743	748	6/5
T400	4000	2000	2500	3000	3500	3800	2005	2080	2080	996	893	898	6/5
T435	4350	1900	2400	2850	3200	3500	2105	2180	2180	1096	993	998	6/5
T450	4500	1850	2300	2700	3050	3300	2155	2230	2230	1146	1043	1048	6/5
T470	4700	1800	2200	2600	2900	3100	2220	2290	2290	1211	1103	1108	6/5
T480	4800	1800	2200	2600	2900	3100	2265	2330	2330	1256	1143	1148	6/5
T500	5000	1750	2150	2500	2850	3000	2355	2430	2430	1346	1243	1248	6/5
T540	5400	1600	1800	2400	2500	2700	2455	2530	2530	1446	1343	1348	3/5
T600	6000	1300	1400	1700	1900	2200	2655	2730	2730	1646	1543	1548	3/5
T650	6500	1000	1200	1500	1600	1600	2855	2930	2930	1846	1743	1748	3/3
T700	7000	750	850	1100	1200	1200	3030	3105	3105	2021	1918	1923	3/3

2.0-2.5t: without load backrest, free lifting height increases by 365mm
3.0-3.8t: without load backrest, free lifting height increases by 441mm



Battery capacity and charger

lead-acid battery						
Voltage/Capacity	80V/420Ah	80V/450Ah	80V/480A	80V/560Ah	80V/600Ah	80V/700Ah
2.0t-2.5t	★	☆	-	-	-	-
3.0t-3.5t-3.8t	-	-	☆	★	☆	-
3.0t(J)-3.5t(J)	-	-	-	-	-	★
battery charger						
Charger voltage/current	80V/60A	80V/60A	80V/70A	80V/80A	80V/80A	80V/100A
note: ★is standard, ☆is optional, -is non-matchable						

lithium battery						
Voltage/Capacity	80V/350Ah	80V/412Ah	80V/460Ah	80V/525Ah	80V/560Ah	80V/608Ah
2.0t-2.5t	★	☆	☆	-	-	-
3.0t-3.5t-3.8t	-	★	☆	☆	☆	☆
3.0t(J)-3.5t(J)	-	-	-	-	★	-
note: ★is standard, ☆is optional, -is non-matchable; Above 525Ah capacity can be equipped with dual gun charging; 3.0(J)-3.5(J) standard with dual gun charging						

Options Information Sheet

Basic Function Options	
solid tire	★
Environmentally friendly solid tires	☆
M300 Mast	★
Other Masts [1]	☆
Standard forks [2]	★
Non-standard forks [3]	☆
Forklift attachments	☆
chargers	★

Hydraulic function options	
Two-Way Multi-Valve	★
Triple Multiway Valve	☆
Quadruple Multiway Valve	★
Multifunctional handrail [4]	☆/★
Metric Thread Manipulator System	★
U.S. Threaded Manipulator System	☆

Comfort function options	
Mast lowering end cushioning function	★
Cushioning at the end of the mast lift	★
electric fan	☆
Rear armrest (with horn button)	★
Steering wheel triggered steering function	★
Synchronized steering function	☆
Automatic Deceleration Function for Turning	★

Cab and windshield options [5]	
Patch cab (with fan + wiper + water sprayer)	☆
Patch Cab + Refrigerated Air Conditioning	☆
Patch cab + heater	☆
Patch cab + cooling air conditioner + heater	☆
Front windshield (incl. wiper + spray bottle)	☆
rear windshield	☆
top rain screen	☆

Note:★i s standard,☆i s optional

[1] For other mast information, please refer to the mast information table;

[2] For standard fork specifications, please refer to the technical data table;

[3] For charger specifications, please refer to the technical data table.

[4] 30J and 35J models (large dual-wheel drive) are equipped with shock-absorbing seats + multifunctional armrest manipulation system as standard, with optional mechanical manipulation valve stem, and the multifunctional armrest is divided into thumb-switching manipulation system and dual-rocker manipulation system, with the default being thumb-switching manipulation system.

[5] The cab and windshield options are only for small Dual-Drive (excluding 30J/35J);

[6] XCMG Telematics is for domestic use only, and Lithium-ion models are equipped with XCMG Telematics as standard.

battery charger				
Voltage/Capacity		80V/100A	80V/150A	80V/200A
Applicable Battery Type		80V lithium battery		
Wiring Method		Three-phase four wire system (L1、L2、L3、PE)		
Input wattage	KVA	≤10	≤15	≤20
Type of Upper Power Supply Miniature circuit breaker	A	32		63
Input Voltage Range	Vac	380±15%		
Input Current	A	20	30	40
Output Current	A	100	150	200
protection class		For indoor use		
Working environment temperature	℃	-20 ~ +45		
Power plug-in		National Standard Charging Gun		
charging duration		Battery charging time = battery capacity x 0.9 / charging current + 10 minutes (trickle equalization charging time) Example: Lithium battery capacity 80V/412Ah, choose 200A charger, charging current is 200A, then the full charge time is 412Ah x0.9/200A+10min=2 hours and 1 minute		

Security Function Options	
OPS function (without drop OPS)	★
Full OPS functionality (with drop OPS)	☆
Multi-way valve overload protection function	☆
Wrap-around seat (with seat switch) [3]	☆
Wrap-around seat (with seat switch + seat belt lock) [3]	☆
Wraparound shock-absorbing seat (with seat switch)	☆
Wrap-around shock-absorbing seat (with seat switch + seat belt lock)	☆
LED flashing warning light	★
LED rotating warning light	☆
LED rotating buzzer warning light	☆
Blue Spotlight/Red Spotlight	☆
Blue Clearance lamps / Red Clearance lamps	☆
reversing radar	☆
Reversing camera (with radar)	☆
Reversing Voice Alert Horn	☆
center rearview mirror	★
left and right rearview mirrors	☆
Left and right rearview mirrors + center rearview mirror	☆
1Kg fire extinguisher (dry powder)	☆
2Kg fire extinguisher (dry powder/carbon dioxide)	☆
3Kg/4Kg fire extinguisher (dry powder/carbon dioxide)	☆
Overspeed alarm (8Km/h or 10Km/h)	☆

Other options	
Lead-acid battery automatic water replenishment function	☆
Uncommon key	★
Universal key	☆
USB port	★
Roof racks (with front protection net)	☆
XCMG Telematics [6]	☆
Tilt Cylinder Sheath	☆
Steering Cylinder Sleeve	☆