



XCMG FOR YOUR SUCCESS



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## XCB-TW15/20

## Three-wheel battery counterbalanced forklift



XCB-TW15/20 battery counterbalanced forklift is one three-wheel battery counterbalanced forklift independently developed by XCMG by relying on the proprietary core technologies and components and breaking through the traditional design philosophy, featuring high environmental-friendliness and energy-saving, excellent performances, and low energy consumption.

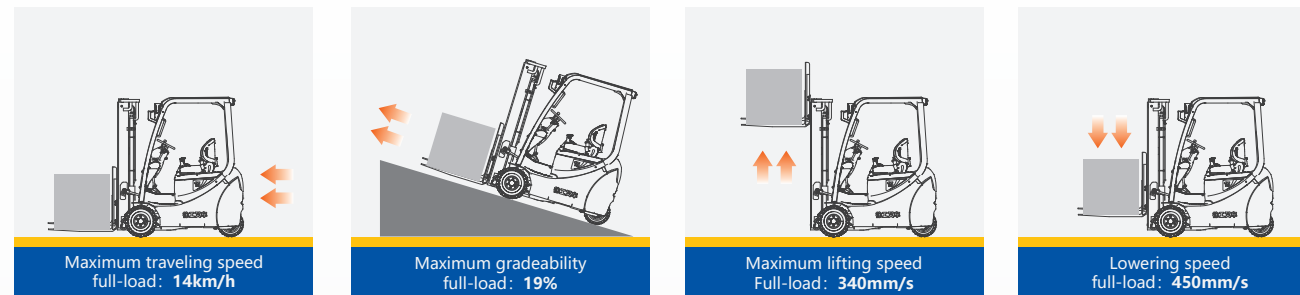
# XCB-TW15/20





## Powerful, advanced and efficient

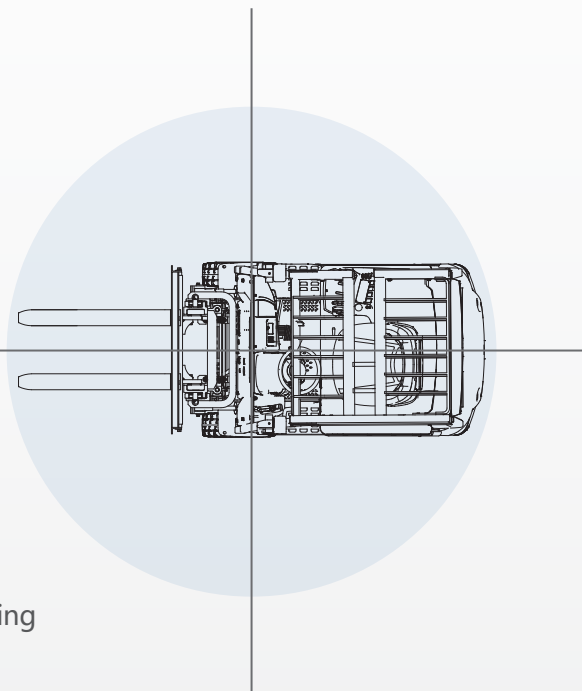
- The all-AC dual-drive high-efficiency motor is applied to achieve excellent drive performance, featuring high efficiency, strong power, and low energy consumption. The dual-drive system enables the machine to achieve the powerful driving performance equivalent to that of internal combustion engine forklift.
- The advanced wet-type brake system is applied to achieve excellent braking performance. The airtight wet-type brake effectively guarantees outstanding overall durability. Compared with traditional drum brake, it requires no replacement of brake pads and thus lowers the maintenance cost.
- The domestic renowned brand battery is used to guarantee reliable performance. The high capacity battery guarantees the long driving range and allows 8 continuous working hours.



XCB-TW15

## Intelligent and precise, flexible and reliable

- The electric system adopts all-AC CAN bus controller, featuring lighter weight, simpler structure, more compact layout, and better energy-saving. It can guarantee the best performance of the drive motor, even under high battery discharge state.
- The proportional hydraulic control valve is applied to accurately control the oil volume and thus provide sable control, minimize the vibration, and realize the accurate positioning during lifting and lowering. Meanwhile, in response to the slow lifting need of special cargo, the operating difficulty is remarkably simplified to improve the operating accuracy and safety.
- The full-hydraulic steering system is applied to provide outstanding flexibility and comfort during the traveling of forklift.
- The smaller turning radius can realize the pivot steering and is more suitable for operations in narrow spaces.



Minimum turning radius: 1550mm

## Comfortable and safe human engineering

- The machine is designed as per ergonomic principles to achieve good vision field and large operating space. The foot space and the superstructure space are enlarged, all operating systems are in reasonable spacing, and the small diameter steering wheel is used to achieve better comfort. The combination joysticks are arranged in reasonable spacing to bring about higher operating comfort. The seat incorporates good shock-absorbing performance and is installed with seat belt and OPS function.
- The electric components and harnesses are installed in reasonable positions and connected reliably. The integrated electric control box features easy and convenient maintenances. The electric system is installed with diversified safety protection devices.

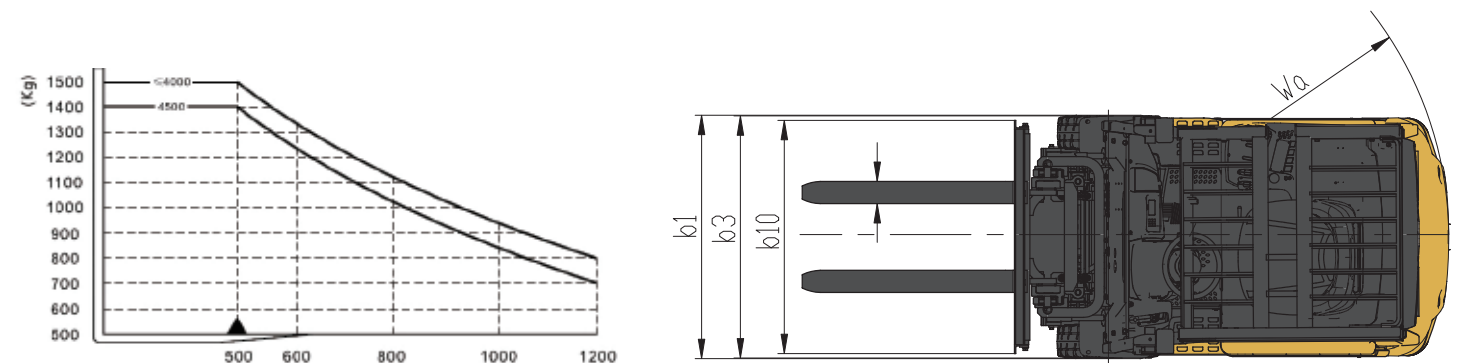
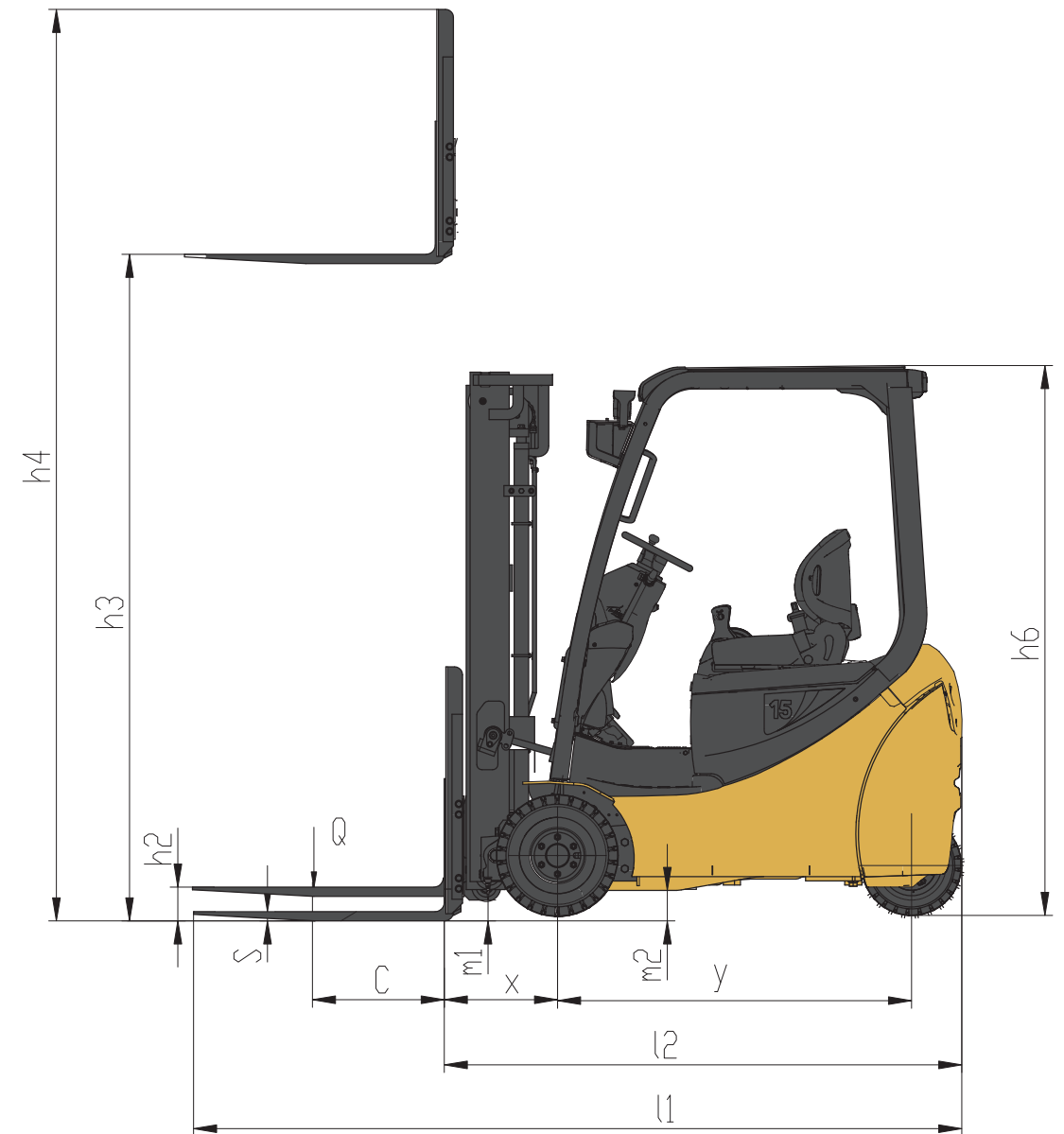
## Adjustable personal settings

- XCMG forklift meets the customers' differentiated needs with rich product configurations. The functional extensibility of nearly 100 attachments, including adjustable sideshifting forks and soft roll clamp, sufficiently meets the customers' customization needs for differentiated working conditions.



## Technical Specification of XCB-TW15/20

Characteristics	1.1	Manufacturer			XCMG	XCMG
	1.2	Model			XCB-TW15	XCB-TW20
	1.3	Power mode			Electric power	Electric power
	1.4	Operating mode			Sit-on type	Sit-on type
	1.5	Rated lifting capacity	Q	kg	1500	2000
	1.6	Center distance of load	c	mm	500	500
	1.7	Front overhan	x	mm	435	435
	1.8	Wheelbase	y	mm	1340	1485
Weights	2.1	Dead weight (including battery)		kg	2980	3730
	2.2	Front/rear axle load, full-load		kg	4000/480	5080/650
	2.3	Front/rear axle load, no-load		kg	1460/1520	1790/1940
Tires	3.1	Type of tires			Air-inflated tires	Air-inflated tires
	3.2	Front tire specification			18×7-8	200/50-10
	3.3	Rear tire specification			15×4.5-8	15×4.5-8
	3.4	Number of front/rear wheels, x=drive wheel			2x/2	2x/2
	3.5	Front wheel tread	b10	mm	940	950
	3.6	Rear wheel tread	b11	mm	170	170
Dimensions	4.1	Mast tilting angle, front/rear	α/β	deg	6/10	6/10
	4.2	Height with masts lowered	h1	mm	2050	2050
	4.3	Free lifting height	h2	mm	140	140
	4.4	Maximum lifting height	h3	mm	3000	3000
	4.5	Maximum height with masts lifted (With cargo backrest)	h4	mm	4090	4090
	4.6	Overhead guard height	h6	mm	2070	2070
	4.7	Overall length (with standard forks)	l1	mm	2885	3150
	4.8	Overall length (To vertical face of forks)	l2	mm	1935	2080
	4.9	Overall width	b1	mm	1110	1130
	4.10	Dimensions of forks (Length × Width × Thickness)	l×e×s	mm	950×100×35	1070×120×40
	4.11	Width of fork carrier	b3	mm	970	970
	4.12	Minimum ground clearance at masts	m1	mm	124	124
	4.13	Minimum ground clearance of frame	m2	mm	125	125
	4.14	Right-angle stacking aisle width (1,000×1,200 pallet)	Ast	mm	2935	2935
	4.15	Minimum right-angle stacking aisle width (800×1,200 pallet)	S	mm	3135	3135
	4.16	Minimum turning radius	Wa	mm	1550	1690
Performances	5.1	Maximum traveling speed, full-load/no-load		km/h	14/15	14/15
	5.2	Maximum lifting speed, Full-load/no-load		mm/s	340/560	265/450
	5.3	Lowering speed, full-load/no-load		mm/s	450/380	430/340
	5.4	Maximum traction force, full-load		N	10000	10000
	5.5	Maximum gradeability, full-load		%	15	15
	5.6	Service brake			Hydro-mechanical type	Hydro-mechanical type
	5.7	Parking brake			Mechanical	Mechanical
Motor and battery	6.1	Traveling motor power, S2=60min working system		kW	4.5×2	4.5×2
	6.2	Lifting motor power, S3=15% working system		kW	9	9
	6.3	Battery capacity (6-hour discharge)		V/Ah	48/450	48/450



With the technical progress, the product structure and specifications shall be subject to update without further notice. In case of any differences between the specifications and product, the product shall prevail.



门架参数											
Type of masts	Maximum height of forks	Mast height			Free lifting height		Minimum ground clearance of masts	Tilting angle of masts		Lifting capacity	
		Ground height of masts	Extended height of masts		Without load backrest	With load backrest		500mm center distance of load			
			Without load backrest	With load backrest				Four-wheel	Three-wheel		
mm	mm	mm	mm	mm	mm	mm	Deg	Deg	Kg	Kg	
Two-stage basic	2000	1550	2512	2950	135	135	124	6	10		
	2500	1800	3012	3450	135	135	124	6	10		
	2700	1900	3212	3650	135	135	124	6	10		
	3000	2050	3512	3950	135	135	124	6	10	1500	1500
	3300	2200	3812	4250	135	135	124	6	10	1500	1500
	3500	2300	4012	4450	135	135	124	6	10	1500	1500
	3700	2400	4212	4650	135	135	124	6	6	1500	1500
	4000	2600	4512	4950	135	135	124	6	6	1500	1500
	4250	2725	4762	5200	135	135	124	6	6		
	4500	2850	5012	5450	135	135	124	6	6	1400	1400
	4750	2975	5262	5700	135	135	124	6	6		
	5000	3100	5512	5950	135	135	124	6	6		
	5400	3400	6012	6450	135	135	124	3	6		
6000	3650	6512	6950	135	135	124	3	6			
Two-stage full-DOF	2000	1525	2612	3050	903	465	124	6	10		
	2500	1775	3112	3550	1153	715	124	6	10		
	3000	2025	3612	4050	1403	965	124	6	10	1500	1500
	3300	2175	3912	4350	1553	1115	124	6	10	1400	1350
	3500	2275	4112	4550	1653	1215	124	6	10	1350	1250
	3700	2375	4312	4750	1753	1315	124	6	6		
Three-stage full-DOF	4000	2575	4612	5050	1953	1515	124	6	6		
	3600	1750	4212	4650	1128	690	124	6	6		
	4000	1885	4612	5050	1258	820	124	6	6		
	4350	2000	4962	5400	1378	940	124	6	6		
	4500	2050	5112	5550	1428	990	124	6	6	1300	1350
	4700	2120	5312	5750	1488	1050	124	6	6		
	4800	2150	5412	5850	1528	1090	124	6	6		
	5000	2250	5612	6050	1628	1190	124	3	6	1200	1250
	5400	2375	6012	6450	1748	1310	124	3	6	1000	1100
	6000	2600	6612	7050	1978	1540	124	3	6	800	100
	6500	2790	7112	7550	2148	1710	124	3	3		
	7000	2985	7612	8050	2318	1880	124	3	3		

List of Main and Optional Equipment											
Intelligent computing control system (ICS)											
Motor-Traveling											
Motor-Hydraulic steering											
Full-rotating dual-drive											
Airtight wet-type disc controller											
Proportional hydraulic valve											
Combination joystick (Integrated with drive/reverse switch)											
FHPS steering											
Operating equipment related parts											
Telescopic tilttable steering column											
Automatic return steering joystick											
Soft landing device											
Safety support equipment											
Operator's in-place sensing system (Lifting/driving interlocking mechanism)											
Emergency switch											
Neutral safety											
Automatic power shutoff											
Rollover protection											
Driving speed control											
Key OFF lifting lock											
Parking brake with release button											
Reversing buzzer											
Rearview mirror (left/right)											
Wide-angle central rearview mirror											
Rear working lamp											
Warning lamp											
Fire extinguisher											
External parts											
Floor mat											
Half-wraparound seat + seat switch											
Pen tray											
File folder											
Floating seat + seat switch											
Battery related											
Battery side outlet (390/450/560Ah)											
Battery with automatic water refilling device											
Lithium battery											
Intelligent monitoring system (IMS)											
Speedometer											
Drive/reverse indicator											
Speed limit indicator											
Calendar and hour meter											
Driving power indicator											
Battery discharge indicator											
Parking brake indicator											
Neutral safety indicator											
Driving OPS warning lamp											
Lifting OPS warning lamp											
Malfunction indicator											
Electrolyte level indicator											

PS: ●Standard , ○Optional



**Safe, Green, Intelligent  
Entrusted with Heavy Load,  
Best Choice of Stability.**