

XCMG Hydraulic Excavator

XE220 C



Hydraulic Excavator - XE220 C



XCMG exclusive control system has the latest power matching technology with optimized fuel power curve which can accurately match the engine and hydraulic system to achieve greater efficiency and better fuel-saving ability.

New electronic-controlled engine has low speed, high torque, high pressure injection, stronger power and better fuel economy which can meet all application requirements. It has higher reliability and efficiency combining proven, durable components and precise manufacturing processes.

XCMG high-efficiency hydraulic system is the new generation high-efficiency main valve that has advantages of higher overflow pressure and smaller pressure loss. The internal structure of the main valve is further optimized, reducing the impact of arm start/stop, boom start/stop which greatly improves the maneuverability and working ability.

Strengthened high-capacity bucket has the bucket capacity increased to 1.0 m³ which has higher operational efficiency.



The maximum displacement and highly efficient main pump in the same tonnage has faster operation speed and stronger operational ability.

The new control system uses CAN bus with monitor for display, controller for signal acquisition and output, which connects with monitor and engine ECM. It can achieve faster data management and more efficient operation.

With a grand appearance, steady lines, simple and generous new painting, high recognition, the whole machine is powerful with three dimensional sense and impressive.

Maintenance points are within easy reach, making the service convenient and fast for

- Engine filter elements.
- Diesel oil filter element.
- Warning device of water separator warns users to drain water.
- Pilot filter element.
- Integrated electric box.
- Air filter.



New cab features large view and lower noise that makes it more comfortable to operate and for the surrounding personnel.



New generation of instruments and 8-inch large screen display - largest in the same industry. Page layout is more detailed and picture quality is clearer.



Air filter

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- Highly reliable turntable, rigid box structure, robot welding has helped to improve the durability of the structural parts.
- Highly reliable working equipment optimizes the design of boom and arm box structure though CAE analysis to form XCMG exclusive technology.

The cab shock absorption performance is improved. The engine mounting seat structure is strengthened.

The rigid structure of I-beam is adopted for the main body which increases the strength of the vehicle. The side frame of turntable adopts D-tube structure to improve the ability of turntable to resist external impact.

Strengthened key parts of the track link are used in the travel system to improve strength and impact resistance of the track link and extends the service life of the crawler.

The dovetail design is adopted at the root of the boom to reduce stress concentration.

Four reinforcement bars are added to the inner wall of the hydraulic tank and the diaphragm increase enhances the overall strength of the tank, preventing fatigue cracking.





A new T-type sleeve bearing is used at the joint of the bucket and arm to improve wear resistance.

Boom and arm axle seat adopts forged axle base which is tempered to increase wear resistance.

A butter dish is changed from welded parts to integral stamping parts, which ensures roundness of sealing ring installation. It prevents wrinkling of sealing ring and improves sealing performance.

Stress distribution of casting single connecting rod is optimized in an all-round way to improve reliability.

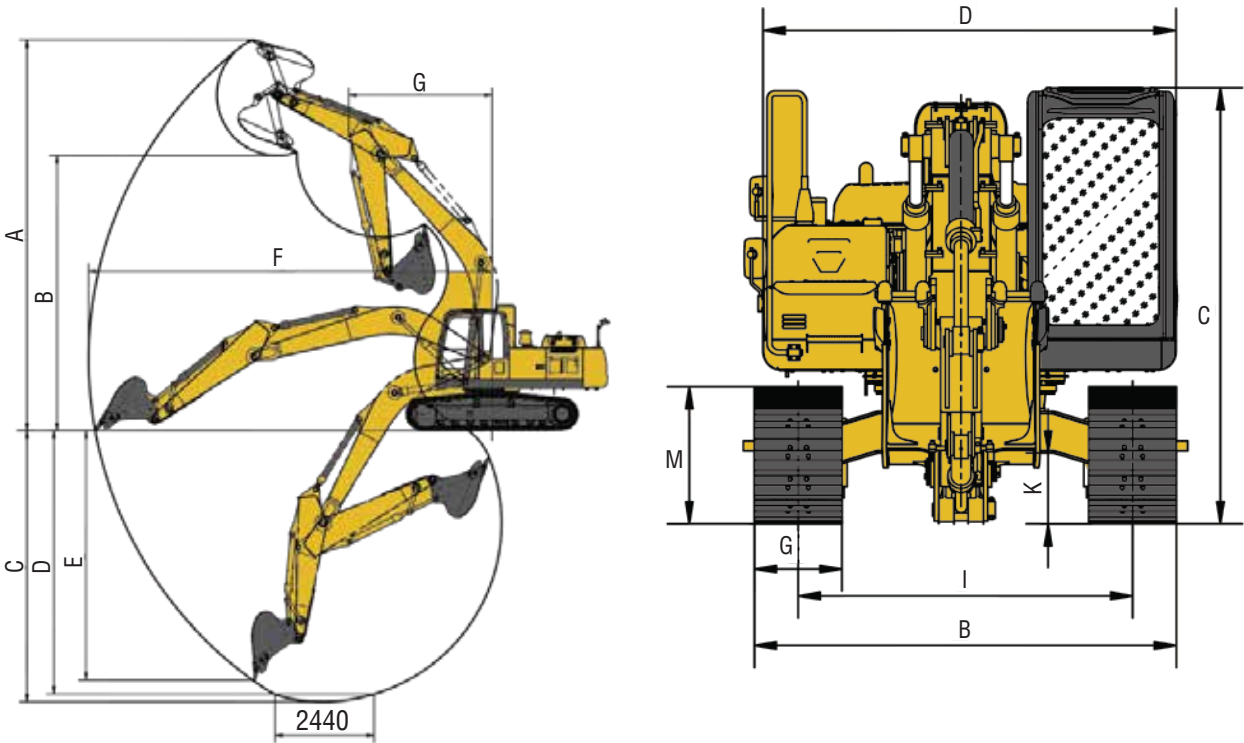
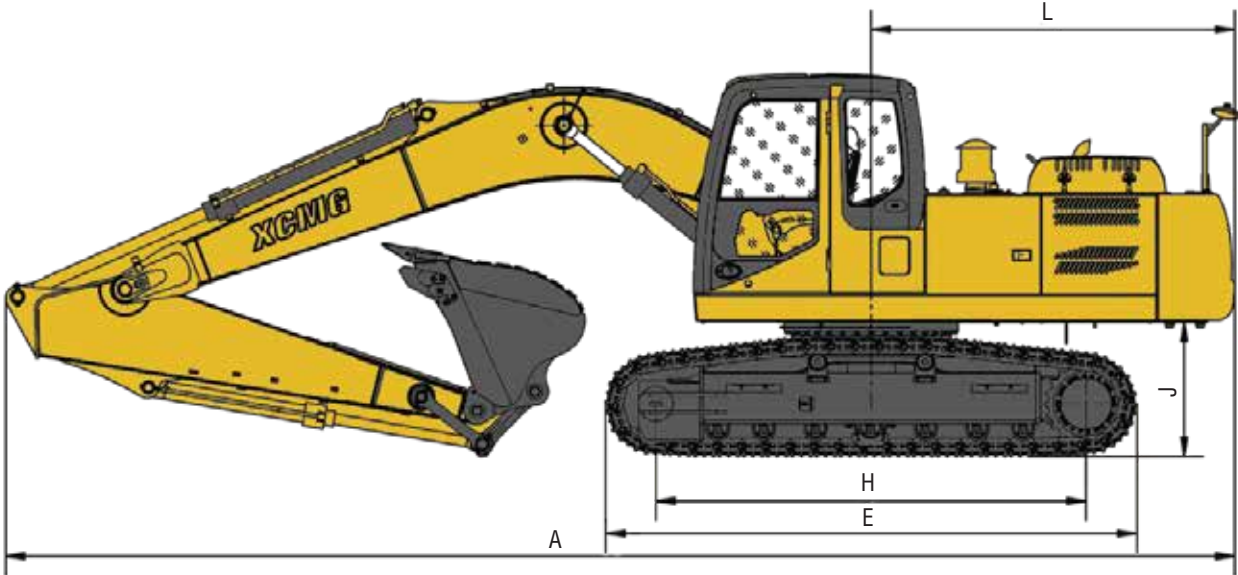
Strength of ear plate and arc plate is further strengthened, thereby prolonging its service life.

New bucket improves excavation performance and wear resistance.

Strengthening X-frame through enlarging the size of box-type frame and plate thickness and improving structure greatly improves the strength of end faces.

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Overall dimensions (mm)




Main Technical Parameters

	Parameter	Unit	Value
Scope of work	A Maximum digging height	mm	9620
	B Maximum dumping height	mm	6780
	C Maximum digging depth	mm	6680
	D Maximum depth cut for 2240mm(8 ft) level bottom	mm	6492
	E Maximum vertical digging depth	mm	6148
	F Maximum digging radius	mm	9940
	G Minimum swing radius	mm	3530
Appearance Size	A Overall length	mm	9625
	B Overall width	mm	2890
	C Overall height	mm	2985
	D Width of platform	mm	2830
	E Track length	mm	4157
	F Overall width of chassis	mm	2890
	G Track width	mm	600
	H Length to center of rollers	mm	3366
	I Track gauge	mm	2290
	J Counterweight clearance	mm	1046
	K Minimum ground clearance	mm	486
	L Minimum tail swing radius	mm	2844
	M Track height	mm	940
	Engine	Model of engine	
Electronic injection			√
4-stroke			√
Water-cooling			√
Turbocharging			√
Air-air intercooler			√
Number of cylinders			4
Engine rated power		kW/ r/min	106/2000
Max. torque/rotation speed		N.m	516/1400
Displacement		L	4.4
Main Performance		Travel speed	km/h
	Swing speed	r/min	13.3
	Gradeability	Deg	≤35
	Ground pressure	kPa	48.5
	Bucket digging force	kN	149
	Arm digging force	kN	111
	Max. traction	kN	226
Fuel Capacity	Fuel tank capacity	L	400
	Hydraulic oil tank capacity	L	220
	Engine oil capacity	L	7.2
Hydraulic System	Main pump		
	Rated main pump flow	L/min	2×234
	Main safety valve pressure	MPa	34.3/37
	Traveling system pressure	MPa	34.3
	Slewing system pressure	MPa	28
Pilot system pressure	MPa	3.9	

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