

XCMG Hydraulic Excavator

XE215 C



Hydraulic Excavator - XE215 C



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.

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

Strengthened high-capacity bucket is with bucket capacity increased to 1.0 m³ and has higher operational efficiency.

Efficient hydraulic system

1. Uses the World famous brand main valve, with valve integration, regeneration, priority and other functions.
2. Double-pump constant-power negative-flow hydraulic system fully absorbs engine power because of which there is large system flow, low pressure loss and excellent compound operation making it economical.
3. Instantaneous boost function is through the handle boost button which instantaneously improves the digging force, overcomes the arduous resistance, in order to handle complex working conditions.



Customized high-power engine with stronger power adopting XCMG's proprietary matching technology, the operational efficiency is higher and the fuel consumption is smaller. Minimized impact on emission systems makes it more environmental friendly.

The new control system uses CAN bus with monitor for display, controller for signal acquisition and output which connects with monitor, GPS controller 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 is with a large view, lower noise and is comfortable to operate.



High-power air-cooling dual-purpose automatic air conditioner is with dual-stage air filtration. The all-round stereo air outlet can be used with a variety of air blowing modes which makes the operation more comfortable.



Warning device of water separator warns users to drain water.



Air filter

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

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

Strength of ear plate and arc plate is further strengthened and the service life is prolonged correspondingly.

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

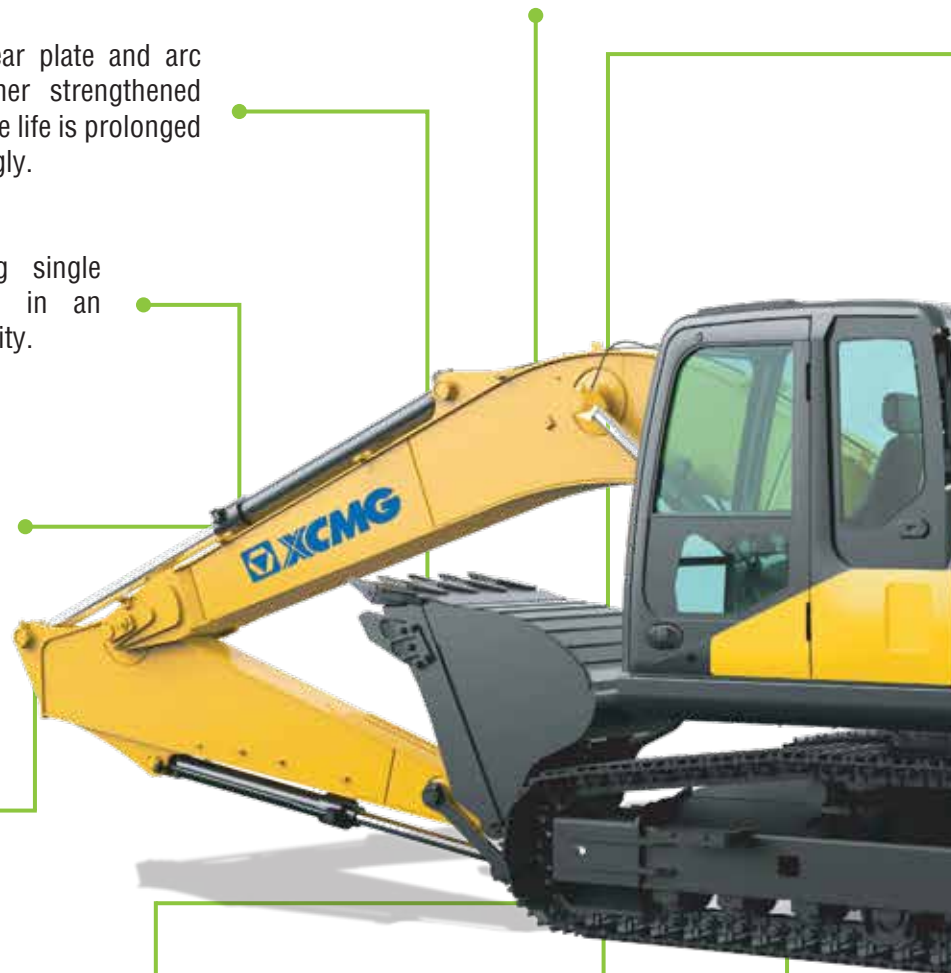
A new T-type sleeve bearing is used at the joint of the bucket and arm to improve wear resistance.

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 helps to prevent wrinkling of sealing ring and improves sealing performance.

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

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



New bucket improves excavation performance and has good wear resistance.



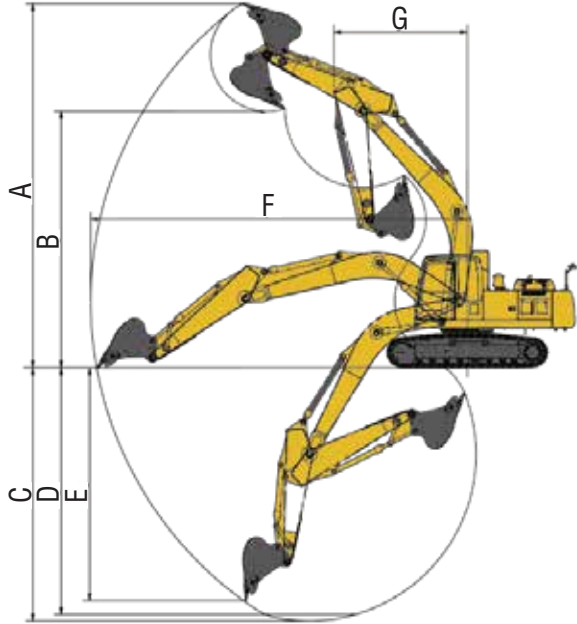
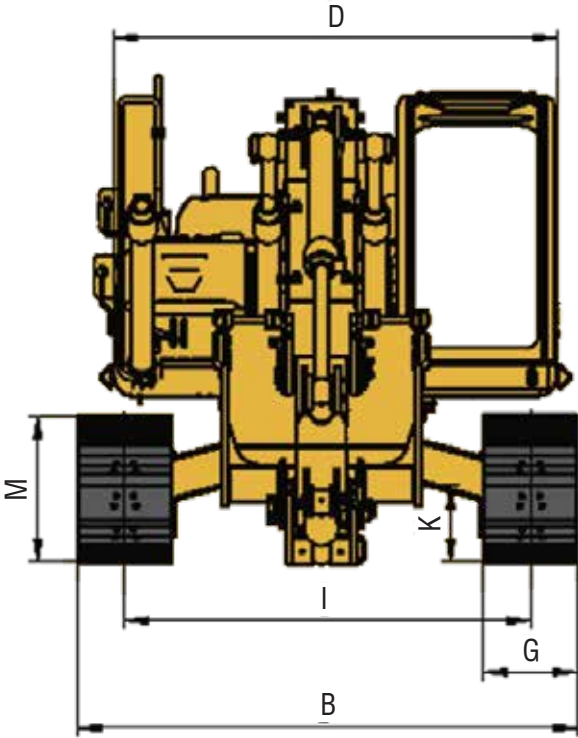
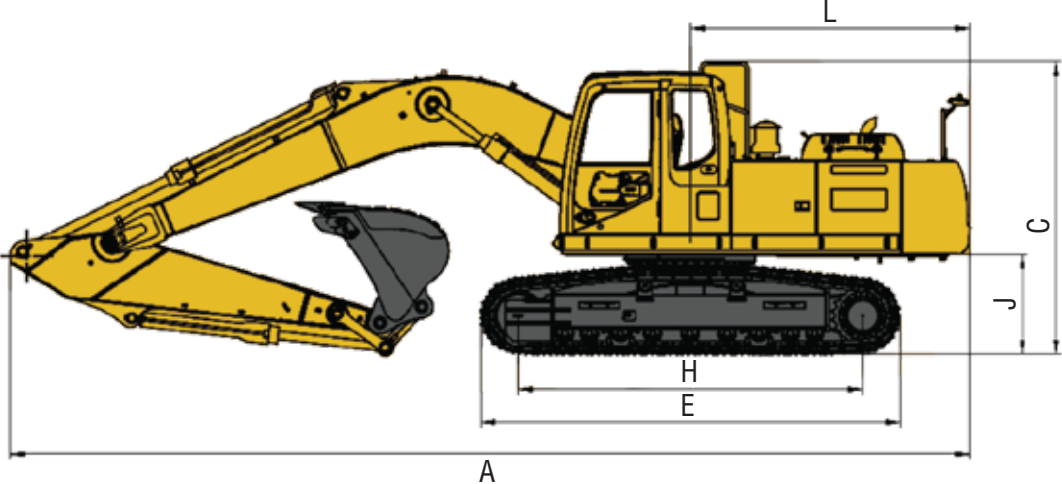
The rigid structure of I-beam is adopted for the main body, and the vehicle is strengthened. The side frame of turntable adopts D-tube structure to improve the ability of the turntable to resist external impact.

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

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.

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Overall dimensions (mm)




Main Technical Parameters

	Parameter	Unit	Value	
Scope of work	A Max. digging height	mm	9620	
	B Max. dumping height	mm	6780	
	C Max. digging depth	mm	6680	
	D Maximum depth cut for 2240mm(8 ft) level bottom	mm	6320	
	E Max. vertical digging depth	mm	5715	
	F Max. digging radius	mm	9940	
	G Min. swing radius	mm	3530	
Shape/Dimensions	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 shoe width	mm	600	
	H Wheel base of crawler	mm	3366	
	I Track gauge	mm	2290	
	J Counterweight clearance	mm	1050	
	K Min. ground clearance	mm	486	
	L Min. tail swing radius	mm	2844	
	M Track height	mm	942	
	Engine	Model		CC-6BG1TRP
		Direct injection		√
Four strokes			√	
Water cooling			√	
Turbo-charging			√	
Air to air intercooler			√	
No. of cylinders			6	
Rated power/speed		kW/ r/min	128.5/2100	
Maximum torque/speed		N.m	637.9/1800	
Displacement		L	6.494	
Fuel Capacity	Fuel tank capacity	L	400	
	Hydraulic tank capacity	L	220	
	Engine oil capacity	L	25	
Main Performance	Travel speed (H/L)	km/h	5.5/3.3	
	Swing speed	r/min	13.2	
	Gradeability	Deg	≤35	
	Ground pressure	kPa	49.1	
	Bucket digging force	kN	149	
	Arm digging force	kN	111	
	Maximum tractive force	kN	184	
Hydraulic System	Main pump		Two piston pump	
	Rated flow of main pump	L/min	2×231	
	Main safety valve pressure	MPa	34.3/37	
	Travel system pressure	MPa	34.3	
	Swing system pressure	MPa	28	
	Pilot system pressure	MPa	3.9	

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CORPORATE OFFICE : F 71 - 72, SIPCOT Industrial Park, Irungattukottai, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu - 602117.
Tel : 044 - 71378100 / 106
Email : chennai@schwingstetterindia.com

Kolkata : Y6, Block EP, Sector V, Electronics Complex, Salt Lake City, Kolkata-700091. Tel: 033 40823300
Email : kolkata@schwingstetterindia.com

Bengaluru : No 138-B, "UDAYAGIRI COMPLEX", 3rd Phase, KIADB Industrial area, Peenya, Bangalore - 560058.
Tel : 080 3355 5588 Fax : 080 3011 4301
Email : bangalore@schwingstetterindia.com

Ahmedabad : 103, Shivalik Arcade, 100 Ft., T.P Anand Nagar, Satellite Road, Ahmedabad 380 051.
Tel : 079 71378100
Email : ahmedabad@schwingstetterindia.com

Pune : Baner Biz Bay, A Wing, 7th Floor, Office No. A-701 & 702, Baner Road, Near D-Mart, Pune - 411 045. Tel: 020-6718500
Email : pune@schwingstetterindia.com

Patna : C/o. House of Ashok Kumar Rana, Ground & First Floor, Samridhi Bhawan, Agamkuan Road, Shivaji Colony, Pahari More, Patna - 800007, Bihar. Tel : 09570996702
Email : rajiv.chandra@schwingstetterindia.com

Goa : C/o Agarwal Packers and Movers Limited, Plot No X-1, Verna Industrial Estate, Verna, Goa - 403722. Tel: 09820203847
Email : sohit.chakhaiyar@schwingstetterindia.com

Mumbai : 620/621, Nirmal Lifestyle Corporate Centre, 6th floor, LBS Marg, Mulund (West), Mumbai 400080.
Tel : 022 25624863 / 64, 30718300, 71378100
Fax : 022 25624865 / 66
Email : mumbai@schwingstetterindia.com

Hyderabad : No.8-2-268/1/C, Plot 2, Road 3, Arora Colony, Banjara Hills, Hyderabad-500034.
Tel: 040 33555588 / 47848601 Fax: 040 23731770
Email : hyderabad@schwingstetterindia.com

Visakhapatnam : Plot No.54, IDA - Block 'D', Expansion, Auto nagar, Visakhapatnam - 530 012.
Tel : 09100061783 Fax: 0891 2706063

Cochin : No.134 / 1404 B, Arakkakadavu Road, Anchumana, Edappally P.O. Cochin - 682 024.
Tel: 0484 - 3355558 / 4055544 Fax: 0484 4506165
Email : cochin@schwingstetterindia.com

Coimbatore : 2005, Trichy Road, Old Rajalaxmi Mills, Singanallur, Coimbatore-641005. Tel: 0422 3223660
Email : coimbatore@schwingstetterindia.com

Surat : Shop No. 128, First Floor, Aagam Orchid, TP Scheme No 6, Opp. Shiv Kartik Complex, Off VIP Road, Nr. Shrunagar Building, Nr Nandini 2, Vesu, Surat-395007 Tel : 08980002726
Email : ahmedabad@schwingstetterindia.com

Nagpur : C/o Amrut Dairy Farm, No. 118, Opp VCA Stadium, Jamtha, 16th KM Milestone, NH-7, Wardha Road, Nagpur - 441108. Tel : 09820203847
Email : sohit.chakhaiyar@schwingstetterindia.com

New Delhi : 19, Okhla Industrial Estate, Phase III, New Delhi - 110 020.
Tel : 011 30928500 Fax : 011 30928530
Email : newdelhi@schwingstetterindia.com

Mohali : D 91-PH-VII, Industrial Area, Mohali, Punjab - 160 055. Tel : 0172 3957500 / 3957501
Email : chandigarh@schwingstetterindia.com

Jammu : C/o. VRL Logistics Limited, Plot No. 19, Transport Nagar, Narwal, Jammu - 180006.
Tel : 099060 35941.

Bhubaneswar : Plot No:182, Naharkanta, Rudrapur Beside Puri Main Canal, NH5, Bhubaneswar - 752101 Odisha. Tel : 09078884484 / 85

Raipur : NH-6, Opposite Vardhaman Motor, Kumahari, Dist - Durg, Chhattisgarh - 490042.
Tel : 07821 247066
Email : sunil.kumar@schwingstetterindia.com

Guwahati : House No. 161, Jaya Nagar, Six Miles, Khanapara, Guwahati 781 022.
Tel: 0361 2234738 / 099575 66738

Indore : Plot No.1074/9/1, A.B. Road (By-Pass), (Opp) Silicon Valley Housing Project, Rau-453331, Indore - 452010. M.P Tel : 08085966587
Email : ahmedabad@schwingstetterindia.com

Jaipur : F-551, Road No. 6, Lehar Choraha, Vishwakarma Industrial Area (VKI Area), Jaipur - 302 013, Rajasthan. Phone: 09672423444