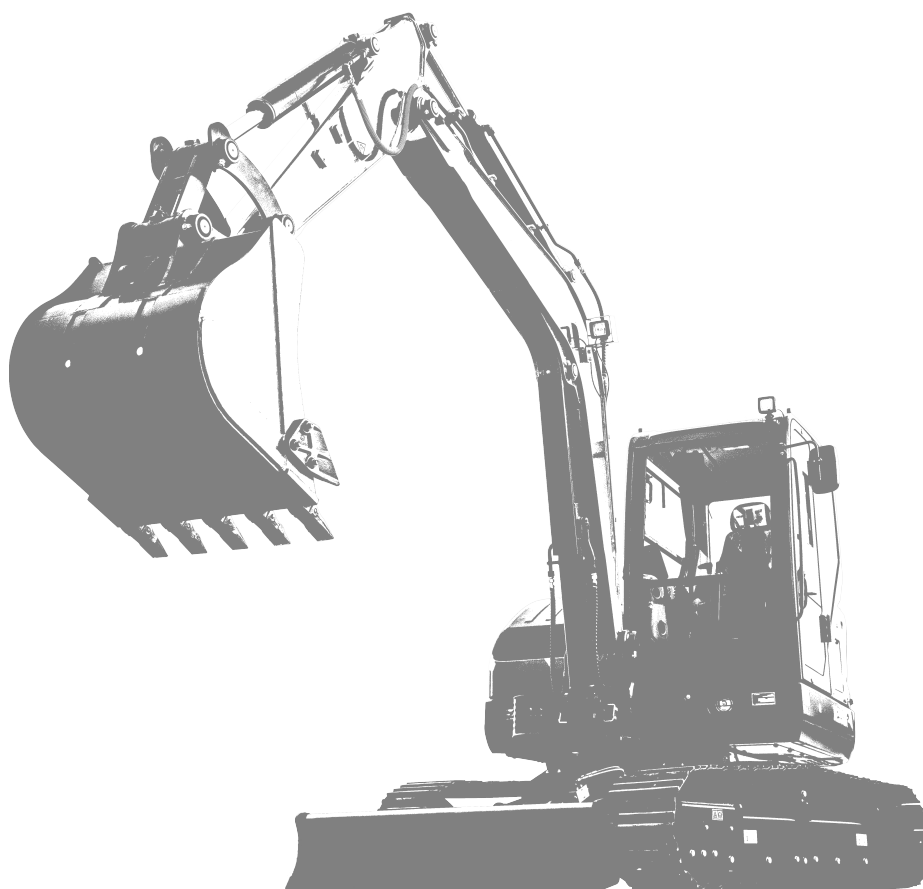




TECHNICAL SPECIFICATIONS

HYDRAULIC EXCAVATOR XE235ECR



XUZHOU XCMG EXCAVATOR MACHINERY CO., LTD.

Version Description

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Update	• (This manual is only applicable to the technical recommendation of excavator products) • Due to technical progress, we reserve the right to modify the manual without notice for improvement.
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Chapter 1 Main Technical Parameters of XE235ECR Crawler Excavator

1.1 Operating Mass

Material number: 310806218

Item contents	Unit	Parameters	Remark
Operating mass	kg	25800 (without dozer blade) / 26800 (with dozer blade)	Including operator (75kg) Contains 90% fuel

1.2 Engine

Material number: 800175967

Item contents	Unit	Parameters	Remark
Engine brand/model	-	Cummins/B6.7	
Rated power/rpm	kW/rpm	129/2200	
Direct injection	-	√	
Electric injection	-	√	
4-stroke	-	√	
Water-cooled	-	√	
Turbocharged	-	√	
Air-to-air intercooling	-	√	
Stroke	mm	124	
Cylinder bore	mm	107	
Number of cylinders	-	6	
Maximum torque/rpm	N·m/rpm	881/1300	
Displacement	L	6.7	

1.3 Main Performance

Material number: 310806218

Item contents	Unit	Parameters	Remark
Travel speed (high/low)	km/h	5.3/3.4	
Swing speed	r/min	12.1	

Item contents	Unit	Parameters	Remark
Maximum swing torque	kN·m	67	
Gradeability	-	35° (70%)	
Ground contact pressure	kPa	53.7/55.8	
Bucket digging force (SAE)	kN	-	
Bucket digging force (ISO)	kN	129.3/139.5	
Arm digging force (SAE)	kN	-	
Arm digging force (ISO)	kN	107.7/116.2	
Maximum traction force	kN	210	

1.4 Tracks

Material number: 310806218

Item contents	Unit	Parameters	Remarks
Standard track shoe width	mm	700	
Number of track shoes (per side)	-	49	
Number of track rollers (per side)	-	9	
Number of track carrier rollers (carrier plate) (per side)	-	2	

1.5 Hydraulic System

Material number: 310806218

Item contents	Unit	Parameters	Remarks
Main pump	-	2× variable displacement piston pump	
Pilot pump	-	1 x Gear pump	
Radiator pump	-	-	
PTO pump	-	1 x Gear pump	
Maximum flow rate of main system	L/min	2×240.5	
PTO pump flow rate	L/min	49.5	
Main system pressure	Mpa	34.3	

Item contents	Unit	Parameters	Remarks
Main system pressure (power-max pressure)	Mpa	37	
Pilot system pressure	Mpa	3.9	
Radiator pump pressure	Mpa	-	
PTO pump pressure	Mpa	30	
Traveling system pressure	Mpa	34.3	
Swing system pressure	Mpa	27.5	

1.6 Oil Capacity

Material number: 310806218

Item contents	Unit	Parameters	Remarks
Fuel tank capacity	L	300	
DEF/AdBlue tank capacity	L	25	
Hydraulic oil tank capacity	L	130	

1.7 Cab Standard

Material number: 310806218

Item contents	Unit	Parameters	Remarks
ISO 10262: 1998 (OPG)	-	√	
ISO 12117-2: 2008 (ROPS)	-	√	

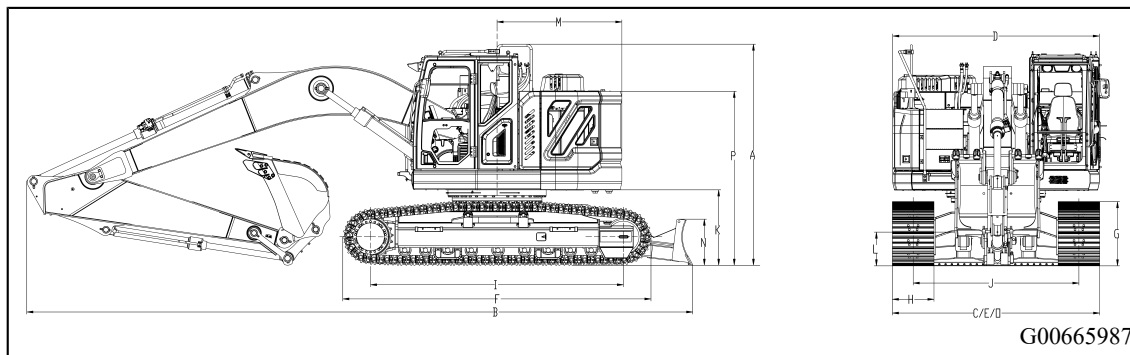


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Chapter 2 XE235ECR Crawler Excavator Overall Dimensions

2.1 Overall Dimensions

Material number: 310806218



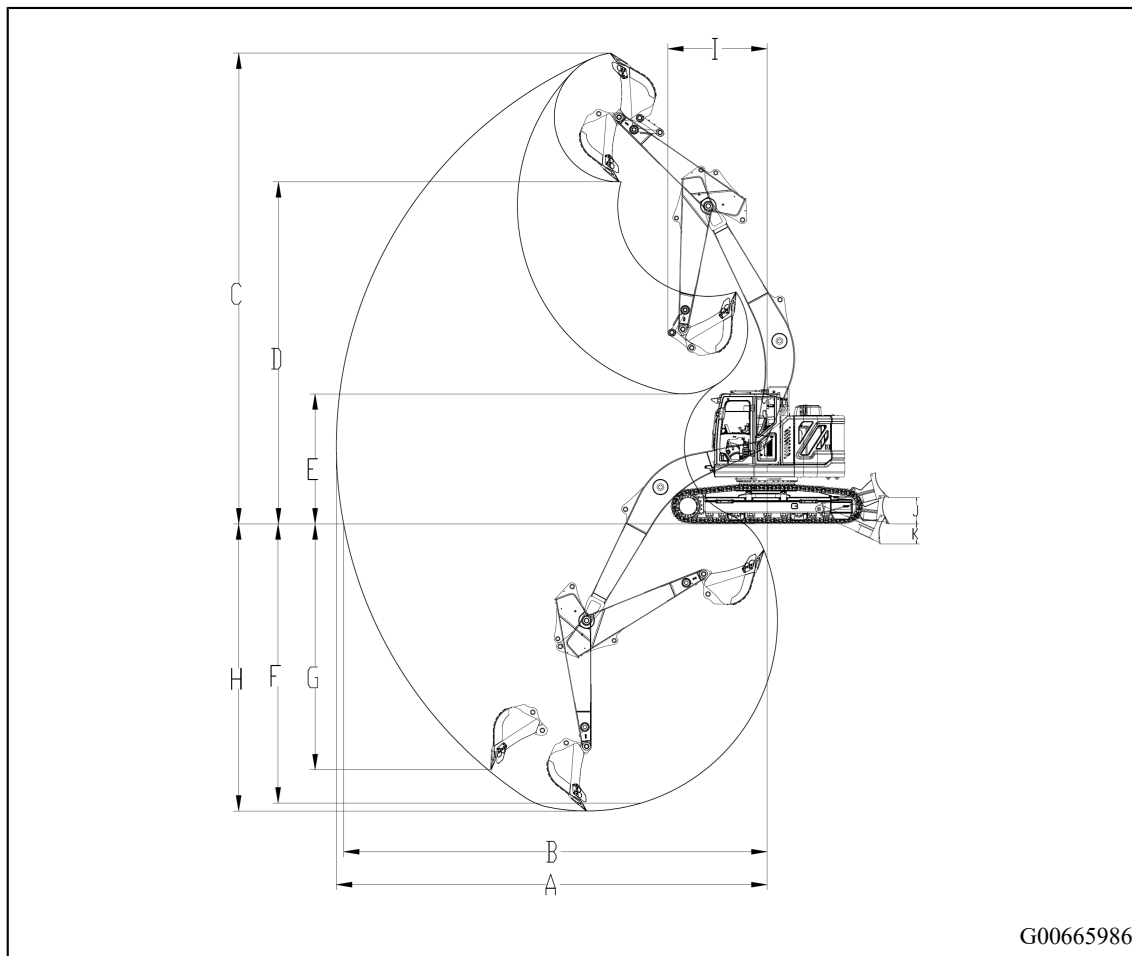
Item contents			Unit	Parameters	Remark
Boom length			mm	5680	
Arm length			mm	2910	
A	Overall height	Cab height	mm	3085	
		OPG height	mm	-	
		Handrail height	mm	3181	
		Installed boom/arm/bucket	mm	2867	
		Installed boom/arm	mm	-	
		Installed boom	mm	-	
		Installed boom/arm/bucket (with pipeline)	mm	-	
		Installed boom/arm (with pipeline)	mm	-	
		Installed boom (with pipeline)	mm	-	
B	Overall length	Warning light height	mm	-	
		Installed boom/arm/bucket	mm	9005/9602	
		Installed boom/arm	mm	-	
		Installed boom	mm	-	
		Installed boom/arm/bucket (with pipeline)	mm	-	
		Installed boom/arm (with pipeline)	mm	-	

Item contents			Unit	Parameters	Remark
		Installed boom (with pipeline)	mm	-	
C	Overall width		mm	3090	
D	Upper structure width		mm	2980	
E	Undercarriage width (extended/retracted)		mm	3090	
F	Track length		mm	4444	
G	Track height		mm	924	
H	Standard track shoe width		mm	700	
I	Track wheelbase		mm	3647	
J	Track gauge (extended/retracted)		mm	2390	
K	Counterweight ground clearance		mm	1085	
L	Minimum ground clearance		mm	485	
M	Rear-end swing radius		mm	1800	
N	Dozer blade height		mm	663	
O	Dozer blade width (unfolded/folded)		mm	2990	
P	Height of engine hood		mm	2503	

Chapter 3 XE235ECR Crawler Excavator Working Ranges

3.1 Working Ranges

Material number: 310806458



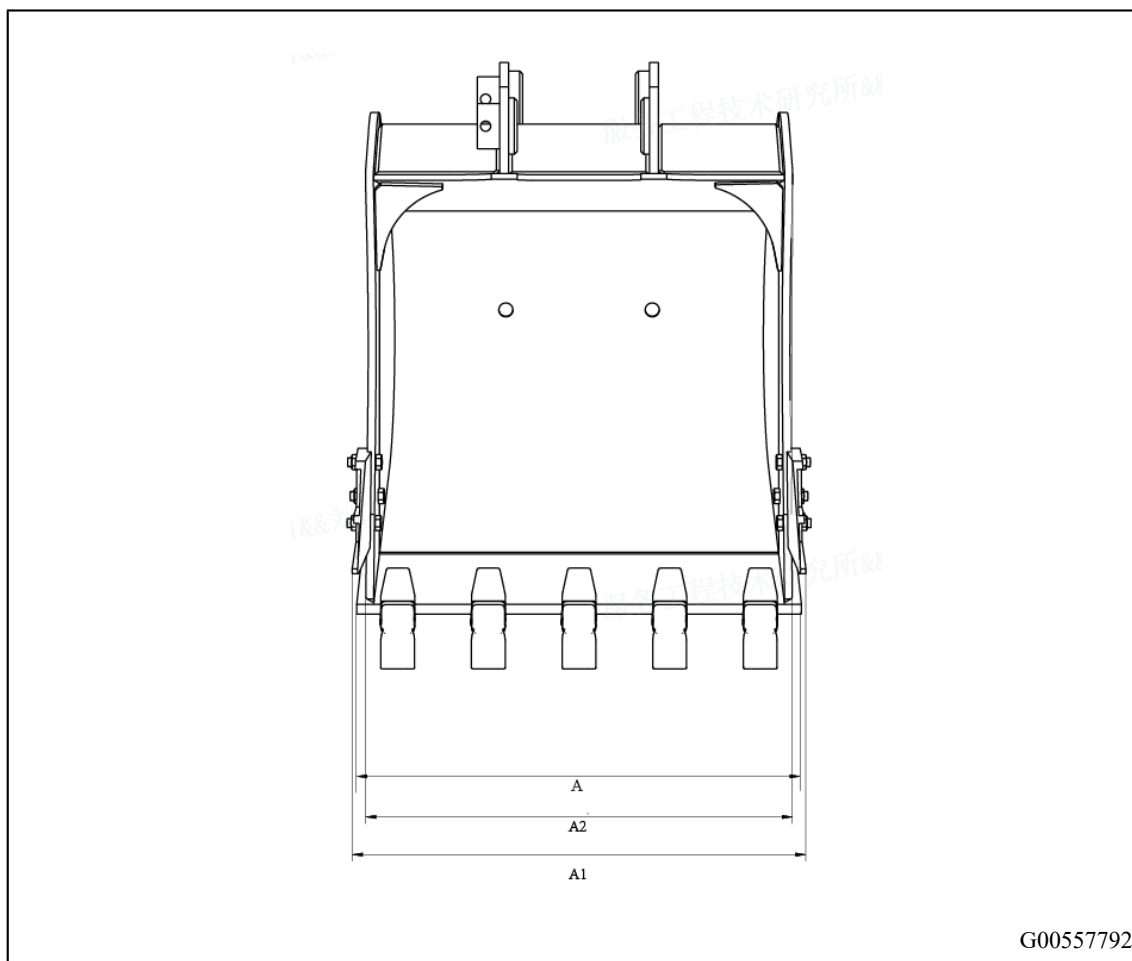
Item contents		Unit	Parameters	Remark
Boom length		mm	5680	
Arm length		mm	2910	
A	Maximum reach	mm	9944	
B	Maximum reach at GRP	mm	9778	
C	Maximum digging height	mm	10899	
D	Maximum dumping height	mm	7919	
E	Minimum unloading height	mm	3012	

Item contents		Unit	Parameters	Remark
F	8 ft. level floor digging depth	mm	6456	
G	Maximum vertical digging depth	mm	5692	
H	Maximum digging depth	mm	6646	
I	Minimum swing radius	mm	2291	
J	Maximum lifting height of dozer blade	mm	610	
K	Maximum cutting depth of dozer blade	mm	480	
L	Boom deflection angle (left)	-	-	
M	Boom deflection angle (right)	-	-	

Chapter 4 XE235ECR Crawler Excavator Bucket Specifications and Compatibility

4.1 Crawler Excavator Bucket Specifications and Compatibility

Material number: 310806458



Item contents	Shipping dimensions (L*W*H)	Bucket teeth radius	Bucket width (main blade) A	Bucket width (side teeth) A1	Bucket width (side blade) A2	Bucket capacity	Weight
	mm						
General duty bucket	14881*1531*1305	1476	1506	1531	1415	1.2	870
	1481*1431*1305	1476	1406	1431	1315	1.1	804

Item contents	Shipping dimensions (L*W*H)	Bucket teeth radius	Bucket width (main blade) A	Bucket width (side teeth) A1	Bucket width (side blade) A2	Bucket capacity	Weight
	mm	mm	mm	mm	mm	m³	kg
	1481*1301*1-305	1480	1276	1301	1185	1	776
	1424*1211*1-305	1473	1186	1211	1094	0.9	750
Heavy duty bucket	1460*1380*1-354	1505	1380	1380	1282	1.1	931
	1460*1354*1-354	1505	1354	1354	1256	1.05	988
	1508*1346*1-305	1497	1316	1346	1230	1	848
	1508*1216*1-305	1497	1186	1216	1100	0.9	793
Rock duty bucket	1608*1146*1-355	1487	1146	1105	1046	1	965
	1608*1060*1-355	1487	1060	1019	960	0.9	924
	1608*960*13-55	1487	960	919	860	0.8	876
Ditch cleaning bucket	1499*1260*1-353	1415	1260	1260	1240	1.2	1045
	1296*1296*1-331	1407	1296	1296	1256	1.05	915
Wear-resistant bucket	1666*1084*1-372	1505	1084	1019	960	0.9	1038

Chapter 5 XE235ECR Crawler Excavator Lifting Capacity Table



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5.1 Lifting Capacity Table

Material number: 310806218

XCMG		XE235ECR	
		5.68/18.6	m/ft
		2.91/9.5	m/ft
		6000/13227.7	kg/lb
		20.6	MPa
		20.6	MPa
		20.6	MPa
		20.6	MPa

										kg				Dozer blade up					
 Travel direction  Opposite to the travel direction  At right angles to travel direction																			
LD	X	1.5/4.92(m/ft)			3/9.84(m/ft)			4.5/14.76(m/ft)			6/19.76(m/ft)			7.5/24.61(m/ft)			MAX		
	Y																		
2.9-1/9.5-m/ft	Z2				*9086 *19989	*9086 *19989	*5423 *11930	*5423 *11930	*5705 *12551	*5303 *11666	*5889 *12955	*3804 *8368	*4902 *10784	*3436 *7559	8 26.25				
	Z1				*5743 *12634	*5743 *12634	*9173 *20180	*6833 *15032	*7202 *15844	*4675 *10285	*5729 *12603	*3506 *7713	*4919 *10821	*3052 *6714	8.4 27.56				
	Z3	*6472 *14268	*6472 *14268		*10630 *23386	*10630 *23386	*8878 *19531	*6756 *14863	*7789 *17135	*4603 *10126	*5697 *12533	*3477 *7649	*5446 *11981	*3338 *7343	7.8 25.59				
Never attempt to lift or hold any load in excess of the rated lifting capacity at the specified lifting radius and height. The lifting point is located on the lifting eye of the arm (excluding the weight of the bucket). If there are additional attachments such as buckets, etc., the lifting weight must be deducted.																			

When determining the net lifting weight allowed for the machine, the weight of the slings and any auxiliary lifting devices must be deducted from the rated lifting capacity. Lifting capacity is based on the machine standing on firm and level ground. The operator should consider working conditions such as soft or uneven ground. Before operating the machine, the operator should familiarize himself with the safety procedures in the relevant manual.

Note 1 The lifting capacities in the table refer to the case where no external thrust intervention is included.

Note 2 The lifting capacity marked with an asterisk (*) in the table is limited by the hydraulic capacity and should not exceed 75% of the minimum tipping load or 87% of the hydraulic capacity.

Note 3 The key stable position is on the side of excavator.

Note 4 The lifting capacity table applies only to machines originally manufactured and normally assembled by the manufacturer.

Note 5 The rated operating mass of the machine is 26800 kg/59083 lb, which includes 0.6 m/1.97 ft steel tracks, 5.68 m/18.64 ft boom, 2.91 m/9.55 ft arm, 6000 kg/132227 lb counterweight, all working fluid and a 75kg/165 lb driver, excluding the bucket.

Note 6 Lifting capacity shall be in accordance with ISO 10567:2007.

Note 7 For all configured crawler specifications, the lifting capacity is kept within $\pm 5\%$.

Chapter 6 XE235ECR Crawler Excavator Highlights

6.1 Highlights

Material number: 310806218

1. High-end configuration with excellent performance

- 1) The high-pressure common rail electronically controlled direct injection engine, which meets the EU stage IIIA emission, realizes the best fuel injection control, improves the combustion efficiency, and is more energy-saving and environment-friendly;
- 2) Highly efficient and quick hydraulic system with optimized design of valve spools reduces the internal pressure loss of the channel, improves the maneuverability, and enhances the efficiency of the whole machine in compound operation.
- 3) Intelligent electronic control system, realizing the best matching control of engine speed and hydraulic pump to achieve dynamic balance of power and hydraulic system. The remote fault diagnosis function can record the operation process at any time.
- 4) Multi-functional attachment intelligent control system and dual electric proportional joystick, visualize and adjust the pressure flow of the machine, able to realize a variety of operations such as crushing, shearing, removing and so on, truly realizing the multi-functionality of one machine.
- 5) Standardly equipped with rear side and right side cameras to effectively reduce the blind spot of driver's field of vision. Intelligent safety alarm system, including travel alarm, lifting alarm and quick-coupler alarm, greatly improves the safety of machine operation.
- 6) The new short-tail design features a tail turning radius of 1,800 mm, allowing for convenient transfers and flexible operation while better meeting local requirements in Australia.

2. High-quality driving enjoyment

- 1) High performance silicone oil shock absorber and internal shock absorbing spring can effectively isolate specific frequency band shock wave and improve comfort.
- 2) The brand new cab, complemented by luxurious interior trim, sunroof design for a wider view and centralized arrangement of operation buttons, makes the driving experience fully upgraded;
- 3) The anti-roll-over cab can be equipped with top guard and front guard to meet the requirements of anti-falling objects, which further improves the safety of the cab.
- 4) Large color LCD screen, digitally displaying relevant information of the machine, with good visual effect and more friendly man-machine interface.
- 5) Equipped with high-power heating and cooling air conditioning and multi-channel three-dimensional air supply system, with advanced sound system, all kinds of operations are convenient and comfortable, within reach.

3. Sturdy, efficient and durable

- 1) A large number of structural parts made of special technology and imported high-strength, wear-resistant steel, significantly improve the strength and service life of the product, easily cope with a variety of harsh working conditions.
- 2) Full-size heavy-duty reinforced chassis structure, with reinforced structure of the equipment design, meets the strong digging force and ensures the stability of the whole machine at the same time.
- 3) Strengthened equipment, with high pressure system design to ensure that the machine has the most powerful digging force in the same class of machines, can easily cope with a variety of working conditions.

4. Convenient maintenance

- 1) Equipped with a new type of color LED screen, it can be timed to remind for machine maintenance, making it more convenient and comfortable for users.
- 2) Reachable daily maintenance points: whether it is fuel filter, oil filter, pilot filter or air filter, all can be directly maintained on the ground.
- 3) Dual fuel filter element protects the fuel system; two-stage fuel-water separation, high precision of particle filtration, and strong oil adaptability.
- 4) The lubrication point of the equipment adopts the form of centralized lubrication arrangement, which makes lubrication easier.



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