

Hydraulic Excavators XE235UCR



Rated Power: 173 hp
Operating Weight: 58,422 lb
Standard Bucket Capacity: 1.3 yd³

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Technical Specifications

Engine

Make/Model	Cummins B6.7
No. of cylinders	6
Rated power	173 hp/2200 rpm
Max. torque	650 ft.lb/1300 rpm
Idle (low - high)	700-1200 rpm
Piston displacement	1.8 gal
Starter	24 V/7.8 KW
Batteries - Alternator	24 V/70 A

› Maximum system pressure

Travel	4,684.7 psi
Swing	3,988.5 psi
Pilot	565.6 psi

Weight

With 9'6" arm and 1.3 yd³ bucket

	Shoe width	Operating weight	Ground pressure
Steel	2'8"	58,422,lb	6 psi

Hydraulic system

This XCMG design allows independent and combined operations of all functions by hydraulic piloted controlled levers.

› Pump

Type	Displacement	Max.flow @ 1800rpm	Relief valve pressure
Main(Positive electric hydraulic system)	7.8 in ³ per pump	(61.82 gal)/min (per pump)	4,975 psi/5,366 psi

Digging forces (ISO 6015)

Digging force, standard arm (ISO 6015)	26,123 lb
Digging force, bucket (ISO 6015)	31,361lb

Undercarriage

X-type undercarriage. The heavy-duty crawler chassis is very resilient with its fully welded, stress-free structure. Long service life is ensured by the use of first-class materials: hydraulic chain adjusters with shock-absorbing return springs, lifetime-lubricated track rollers and idlers.

› Number of rollers and track shoes per side

Upper rollers (standard shoe)	2
Lower rollers	9
Number of links & shoes	49
Overall track length	14'7"



Technical Specifications

Drive

Each track is driven by an independent, high-torque, axial piston motor through planetary reduction gears. Two control levers provide smooth travel or counter_rotation upon demand.

Speed & traction

Travel speed (low - high)	2.1-3.7 mile
Maximum traction	48,109 lbf
Maximum gradeability	≤35°

Swing mechanism

High-torque, axial piston motor with planetary reduction gear bathed in oil. Swing circle is single-row, shear type ball bearing with induction-hardened internal gear. Internal gear and pinion gear immersed in lubricant. Equipped with an automatic multi-disc slew brake.

Swing speed & torque

Maximum swing speed	12.1 rpm
Maximum swing torque	60,849 ft.lb

Fluid capacities

Fuel tank	79.3 gal
Cooling system (radiator capacity)	5.5 gal
Hydraulic oil tank	42.3 gal
Engine oil	6.3 gal
Swing drive	1.4 gal
Travel device	1.2 gal

Buckets

Bucket type	Capacity(yd³)	Width(in.)		Weight(lb)	Boom 18'8"
		With side cutters	W/o side cutters		Arm 9'7"
GP	1.2	4'	3'11"	1,653	C
	1.2	4'2"	4'	1,607	C
	1.2	4'4"	4'3"	1,676	C
	1.3	4'3"	4'2"	1,724	C
	1.4	4'5"	4'5"	1,892	C
	1.4	4'8"	4'7"	1,775	C
	1.6	5'	4'11"	1,918	C
HD	1.2	4'	3'11"	1,779	B
	1.3	4'5"	4'4"	1,929	B
	1.4	4'5"	4'5"	2,178	B
	1.5	4'8"	4'8"	2,304	B
	1.6	4'11"	4'11"	2,374	B
SD	1.2	3'6"	3'6"	2,046	A
	1.3	3'9"	3'9"	2,176	A

GP: General purpose; HD: Heavy duty; SD: Severe duty;
A: Suitable for materials with a density less than or equal to 2100 kg/m³(131 lb/ft³)
B: Suitable for materials with a density less than or equal to 1800 kg/m³(112 lb/ft³)
C: Suitable for materials with a density less than or equal to 1500 kg/m³(93 lb/ft³)
Based on ISO 10567 and SAE J296, arm length without quick-coupler. For reference only.

Lifting Capacities

XE235UCR

Standard undercarriage width: 10'6" · W/o bucket (lb)

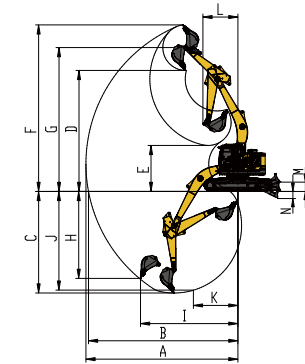
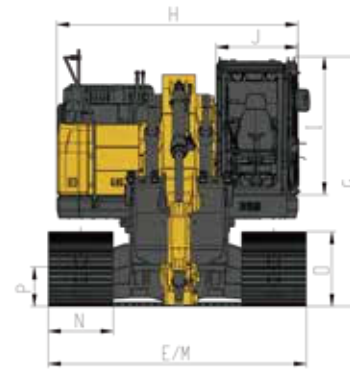
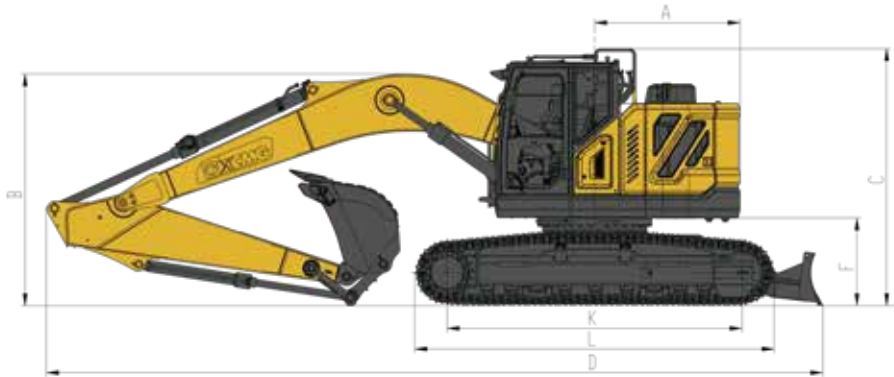
Lph(ft)	Lpr (ft)	A		5		10		15		20		25		Max. reach		
		B														A
Boom 18'8" Arm 10'6" Shoe 31"	30													*13,955	*13,955	14
	25							*11,958	*11,958					*11,667	11,459	20
	20							*12,785	*12,785	*12,800	12,022			*10,932	8,813	24
	15					*20,035	*20,035	*15,772	*15,772	*12,580	12,030	*12,985	8,388	*10,809	7,576	26
	10							*20,226	16,723	*13,856	11,693	13,120	8,170	*11,104	6,959	28
	5							*24,295	15,653	*15,880	11,184	12,844	7,920	10,840	6,730	28
	0.0(Ground line)					*12,663	*12,663	*26,339	15,067	17,779	10,674	12,632	7,731	11,082	6,840	27
	-1.5			*14,271	*14,271	*23,439	*23,439	*26,314	14,897	17,360	10,308	12,562	7,667	12,008	7,360	26
	-3.0			*25,651	*25,651	*34,182	28,162	*24,374	15,016	17,175	10,150			14,167	8,593	23
	-4.5					*26,994	*26,994	*19,576	15,453	17,250	10,214			*15,126	11,748	18

 : Over front
 : Over side or 360°

1. The lifting capacity ratings are based on ISO10567.
2. * The maximum lifting capacity is limited by hydraulic rather than tipping load.
3. With the machine standing on level and firm ground, the lifting capacity does not exceed 87% of the hydraulic capacity or 75% of the tipping load.
4. The operator should be familiar with the machinery operation and maintenance manuals. Local regulations concerning the operation safety of machinery must be followed at all times.
5. The lift diagrams only cover machines that are originally built by the XCMG: without lifting chains and any other lifting equipment.
6. When the excavator is used to lift or handle materials, it must comply with local regulations.



Technical Specifications



Dimensions

XE235UCR		ft
Boom length-ft		18'8"
Arm length-ft		9'7"
Bucket capacity-yd ³		1.3
A	Tail swing radius	5'11"
B	Shipping height (boom)	9'5"
C	Shipping height (guardrail)	10'5"
D	Shipping length	29'7"/31'6"
E	Shipping width	10'6"
F	Counterweight clearance	3'7"
G	Height over cab	10'1"
H	Upper structure width	9'9"
I	Cab height above house	5'7"
J	Cab width	3'4"
K	Tumbler distance	12'
L	Track length	14'7"
M	Undercarriage width	10'6"
N	Shoe width std.	2'7"
O	Track height	3'
P	Ground clearance	1'7"

Working range

XE235UCR		ft
Boom length-ft		18'8"
Arm length-ft		9'7"
Bucket capacity-yd ³		1.3
A	Max. digging reach	32'7"
B	Max. digging reach (ground)	32'1"
C	Max. digging depth	21'10"
D	Max. loading height	26'
E	Min. loading height	9'11"
F	Max. digging height	35'9"
G	Max. bucket pin height	30'11"
H	Max. vertical wall depth	18'8"
I	Max. radius vertical	20'11"
J	Max. digging depth (8' level)	21'2"
K	Min. radius 8' line	9'7"
L	Min. swing radius	7'6"
M	Maximum lifting height of blade	2'
N	Maximum digging depth of blade	1'7"