

Hydraulic Excavators XE210U



Rated Power: 173 hp
Operating Weight: 50,927 lb
Standard Bucket Capacity: 1.57 yd³

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Technical Specifications

Engine

Designed to deliver superior performance and fuel efficiency, the Cummins Stage IV diesel engine fully meets the emissions regulations. To optimize machine performance, the engine uses high-pressure fuel injectors, air-to-air inter-cooler and electronic engine controls. 4-Cycle Water-Cooled, turbocharged, Exhaust Gas Recirculation (EGR) & Selective Catalytic Reduction (SCR) with no Diesel Particulate Filter (DPF).

Model	Cummins QSB6.7
No. of cylinders	6
Rated power at 2100 rpm	
(SAE J1995)	173 hp at 2100RPM
(SAE J1349)	153 hp
(ISO 9249)	153 hp
Max. torque at 1500 rpm	800 Nm
Idle (low - high)	700 - 1200 rpm
Piston displacement	1.8 gal
Bore x stroke	107 mm x 124 mm
Starter	24 V x 7.8 kW
Batteries - Alternator	2 x 12 V, 150 Ah - 24 V, 70 A
Air filter	Donaldson the latest PSD air filter and pre-filtered dust separator

Weight

Shoe width (ft)	Operating weight (lb)	Ground pressure (psi)
2'7"	50,927	522
2'	50,045	653
2'4"	50,486	560

Hydraulic system

The XICS (XCMG Intelligent Control System) is the brain of the excavator - minimizing fuel consumption and enabling the efficiency of the hydraulic system to be optimized for all working conditions. To harmonize the operation of the engine and the hydraulics, the XICS is connected to the engine's electronic control unit (ECU) via a data transfer link.

- The hydraulic system enables independent or combined operations - 2 travel speeds offer either increased torque or high speed
- Cross-sensing pump system for fuel savings - Auto-deceleration system
- 7 work modes, 3 power modes - Flow and pressure control of auxiliary hydraulic circuits from control panel
- Computer-aided pump flow control

> Pumps flow & system pressure

Main pumps, type:	2 x variable displacement tandem axial piston pumps
Maximum flow at 1750 rpm	2x55.5 gal/min
Pilot pump, type:	Gear pump
Maximum flow at 1750 rpm	7.1 gal/min
Relief valve settings:	
Pressure up	5,076/5,511 psi
Travel	4,786 psi
Swing	3,844 psi
Pilot	580 psi

Undercarriage

Extremely robust construction throughout - made of high-quality, durable materials, with all welded structures designed to limit stresses.

- Lifetime lubricated track rollers - Idlers and sprockets fitted with floating seals
- Track shoes made of induction-hardened alloy with triple grouser
- Heat-treated connecting pins
- Hydraulic track adjuster with shock-absorbing tension mechanism

> Number of rollers and track shoes per side

Upper rollers (standard shoe)	2
Lower rollers	9
Number of links & shoes per side	49
Link pitch	190
Overall track length	14'7"

Cab

The air-conditioning and heating systems are integrated for optimal climate control. An automatically-controlled fan supplies the pressurized and filtered cab air, which is distributed throughout the cab from multiple vents. The heated air suspension, adjustable operator's seat includes a seat belt. The operator can adjust the ergonomic seat and joystick console separately according to his preferences.

Note – Declared single-number noise emission values are the sum of measured values and the associated uncertainty, and they represent upper boundaries of the range of values which is likely to occur in measurements.

> Noise emission

A-weighted emission sound pressure level at the operator's position, LpAd (ISO 6396)	71 dB(A)
A-weighted sound power level, LwAd (2005/88/EC)	Guaranteed : 103 dB(A) Measured : 102 dB(A)



Technical Specifications

Component weights

Item	Unit	XE210U	Remarks
Upper structure without front	lb	31,636	With counterweight
Lower structure assembly	lb	18,409	2' shoe
Front assembly	lb	7,716	Without cylinder
Counterweight	lb	9,370	SLR counterweight
Boom	ft/lb	18'8"/3,351 17'1"/3,417 26'8"	Including bushing
Arm	ft/lb	7'10"/1,587 9'6"/1,720 20'9"	Including bushing
Bucket	yd ³ /lb	1.2/1,024	Including cylinder

Drive

Each track is driven by an independent, high-torque axial piston motor through a planetary reduction gearbox. Two levers / foot pedals guarantee smooth travel with counter-rotation on demand. The track frame protects the travel motor, brake and planetary gears. The multi-disc track brakes are spring-applied and hydraulic released.

Speed & traction

Travel speed (low - high)	2.2/3.5 mph
Maximum traction	18.8 ton
Maximum gradeability	35° / 70%

Buckets

Bucket Type	Capacity (yd ³) SAE	Width (ft)		Weight (lb)	Boom 18'8"		Boom 17'1"	
		With side cutters	W/O side cutters		Arm 7'10"	Arm 9'6"	Arm 7'10"	Arm 20'9"
					Shoe 2'	Shoe 2'	Shoe 2'	Shoe 27"
GP	0.65	-	2'	1,446	A	A	A	-
	0.78	3'3"	3'	1,435	A	A	A	-
	1.57	5'	4'9"	1,971	A	B	A	-
HD	1.22	4'2"	3'11"	1,799	A	A	A	-
	1.37	4'5"	4'5"	2,114	A	A	A	-
	1.57	4'4"	4'2"	2,061	A	B	A	-
SD	1.05	3'2"	3'2"	1,933	A	A	A	-
	1.18	3'6"	3'6"	2,039	A	A	A	-
	1.31	3'9"	3'9"	2,127	A	A	A	-

Swing mechanism

The swing mechanism uses an axial piston motor, driving a 2-stage planetary reduction gear bathed in oil for maximum torque.

- Swing bearing: single-row, shear type ball bearing with induction hardened internal gear
- Internal gear and pinion immersed in lubricant

› Swing speed & torque

Maximum swing speed	11.8 rpm
Maximum swing torque	51,247 lbf-ft

› Fluid capacities

Fuel tank	105.7 gal
Cooling system (radiator)	6 gal
Urea (DEF) tank	11.1 gal
Hydraulic oil tank	58 gal
Engine oil	6.3 gal
Swing drive	1.8 gal
Travel device	2x1.1 gal

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

XE210U

Standard undercarriage width: 10'6" · W/O Bucket

Unit: 1000 lb	A	4'11"		9'10"		14'9"		19'8"		24'7"		Max. reach		
	B													A
One-piece boom 18'8" Arm 9'6" Shoe 2'7" Counterweight 9,370 lb	24'7"							11,244	9,700			10,362	9,259	13,801
	19'8"							10,803	9,700			9,700	7,055	16,204
	14'9"							11,905	9,259	10,362	6,393	9,259	5,732	17,659
	9'10"							13,228	9,700	10,141	6,393	8,598	5,291	18,409
	4'11"					22,053	12,346	13,669	8,378	9,921	5,952	8,157	5,291	18,563
	0			10,803	10,803	20,723	11,684	13,448	7,937	9,700	5,732	8,378	5,071	18,100
	-4'11"	12,566	12,566	20,503	20,503	22,053	11,684	13,007	7,716	9,480	5,732	9,259	5,512	16,976
-9'10"	22,487	22,487	31,306	22,267	20,723	11,684	13,669	7,937			11,244	8,598	15,058	
-14'9"			26,235	22,928	18,298	12,125					14,110	9,039	11,949	

 : 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.



Quick Coupler



Grapple



Shear Dismantler



Forest Machine Grapple



Orange Peel Grapple



Eagle Shear



Pile Hammer



Hydraulic Breaker



Rotating Crusher
















Compactor



Pulverizer

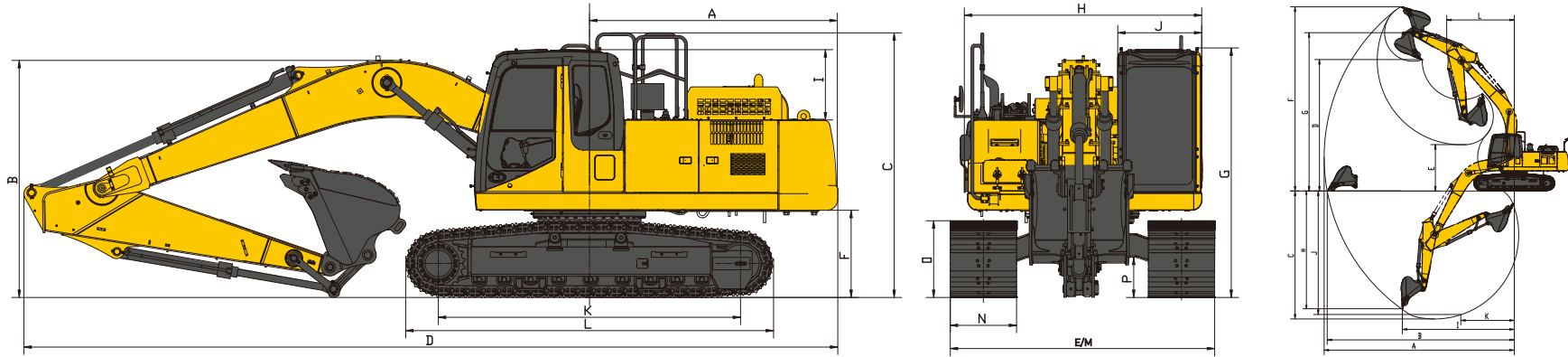
Lifting Capacities

Standard undercarriage width: 10'6" · W/O Bucket

Unit: 1000 lb	A	4'11"		9'10"		14'9"		19'8"		24'7"		Max. reach			
	B														A
One-piece boom 18'8" Arm 7'10" Shoe 2'7" Counterweight 9,370 lb	24'7"												12,346	11,023	12,434
	19'8"							13,007	11,684				11,464	7,275	15,080
	14'9"							13,889	12,787	12,346	7,716		11,244	7,055	16,667
	9'10"							16,094	10,803	12,125	7,275		10,582	6,173	17,483
	4'11"					24,692	14,771	16,535	10,141	12,125	7,275		9,921	6,173	17,637
	0					24,912	13,889	16,094	9,700	11,684	7,055		9,921	6,173	17,152
	-4'11"					24,692	13,889	15,653	9,259				11,023	6,834	16,006
	-9'10"				24,912	24,912	24,912	13,889	16,094	9,480				13,007	7,937
-14'9"				39,242	26,896	22,267	14,991						16,976	11,244	10,538



Technical Specifications



Dimensions

	XE210U	One-piece boom		SLR
Boom length - ft		18'8"		20'9"
Arm length - ft		7'10"	9'6"	7'10"
Bucket capacity - yd ³		1.6	1.4	0.5
A Tail swing radius - ft		9'10"	9'10"	9'10"
B Shipping height (boom) - ft		10'	9'11"	10'4"
C Shipping height (hose) - ft		10'4"	10'4"	10'8"
D Shipping length - ft		31'8"	33'6"	39'10"
E Shipping width - ft		10'6"	10'6"	10'6"
F Counterweight clearance - ft		3'5"	3'5"	3'5"
G Height over cab - ft		9'9"	9'9"	9'9"
H House width - ft		9'3"	9'3"	9'3"
I Cab height above house - ft		2'9"	2'9"	2'9"
J Cab width - ft		3'4"	3'4"	3'4"
K Tumbler distance - ft		12'	12'	12'
L Track length - ft		14'7"	14'7"	14'7"
M Undercarriage width - ft		10'6"	10'6"	10'6"
N Shoe width std. - ft		2'7"	2'7"	2'7"
O Track height - ft		3'	3'	3'
P Ground clearance - ft		1'7"	1'7"	1'7"

Working range

	XE210U	One-piece boom		SLR
Boom length - ft		18'8"		26'8"
Arm length - ft		7'10"	9'6"	20'9"
Bucket capacity - yd ³		1.6	1.4	0.5
A Max. digging reach - ft		30'11"	32'7"	50'7"
B Max. digging reach (ground) - ft		30'5"	32'1"	50'4"
C Max. digging depth - ft		20'3"	21'11"	38'1"
D Max. unloading height - ft		21'10"	22'3"	36'7"
E Min. unloading height - ft		9'9"	7'10"	7'3"
F Max. digging height - ft		31'2"	31'7"	43'6"
G Max. bucket pin height - ft		26'9"	27'2"	39'6"
H Max. vertical wall depth - ft		18'3"	18'9"	28'10"
I Max. radius vertical - ft		-	-	-
J Max. digging depth (8' level) - ft		19'6"	21'4"	36'9"
K Min. radius 8' line - ft		19'8"	20'8"	33'
L Min. swing radius - ft		11'7"	11'7"	15'6"

Digging forces (ISO)

	XE210U	One-piece boom		SLR
Boom length - ft		18'8"		26'8"
Arm length - ft		7'10"	9'6"	20'9"
Bucket capacity - yd ³		1.57	1.4	0.5
BUCKET (Normal/Press. Up) - lbf		34,845	33,497	37,993
ARM (Normal/Press. Up) - lbf		27,202	24,954	29,675