

Mini Excavators XE55U



Rated Power: 30.7 kW (41.2 hp)
Operating Weight With Cab: 5700 kg (12566 lb)
Operating Weight With Canopy: 5600 kg (12346 lb)
Standard Bucket Capacity: 0.16 m³ (0.21 yd³)

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Specifications and designs are subject to change without notice.
Machines shown may include optional equipment.





INTRODUCTION OF XCMG

XCMG, as a leading enterprise valued of 100 billion RMB, with the largest scale, the best technology level, the largest export volume, and high competitiveness and influence in China's construction machinery industry, has been occupying the first place in China's construction machinery industry for decades, and it now ranks the third in the world industry and the 382th among the world's top 500 brands.

The main products by XCMG consists of 16 categories of equipment such as hoisting machinery, excavation machinery, concrete machinery, mining machinery, earth-moving machinery and road machinery, etc., as well as three categories of key components such as hydraulic system, transmission system and electric control system. Among above-mentioned, hoisting machinery ranks first in the world, and package solution of road construction and maintenance machinery, piling machinery and concrete machinery are among the first-class bloc in the world.

XCMG has accumulated more than 8000 approved patents, including more than 1900 invention patents and more than 130 PCT international patents. Entities of R&D centers, manufacturing plants or KD factories are in operation in more than 10 countries such as Germany, the United States, Brazil and India, XCMG has also acquired three European enterprises including Schwing in Germany. The Brazil manufacturing plant, with an investment of 350 million dollars to build up factories on a bare ground, has become a model of economic cooperation between China and Brazil. At present, XCMG products are exported to 187 countries and regions, covering 97% of the countries along "The Belt and Road" area. In export business to 35 countries, XCMG's proportion ranks NO. 1, with a steady first place within Chinese industry in terms of annual export volume and overseas income.

The XE55U comes with every feature you expect from a compact excavator in its tonnage.

Variable angle boom, 70° to the left and 53° to the right, reduced swing tail, and standard rubber track and angle blade give you an edge when undertaking operations in confined sites such as utility, garden, and community landscapes.

Powered by a reliable 41.2 hp Kubota engine, you can count on it to finish tough jobs in various operating conditions. When it comes to efficiency, versatility is a critical factor. That's why the machine is compatible to multiple attachments that can be installed within a short period of time with its hydraulic quick coupler. You will finish the operations with ease and comfort in the jobsite.





Compact Machine with Excellent Performance

Performance meets Efficiency

Designed to combine power and smoothness, the XE55U is ready to take on the challenges. This short-tail 12566 lb machine can easily perform on your jobsites even in confined spaces. Its versatility is enhanced by two standard hydraulic circuits (AUX1 & AUX2) and precise oil flow control. High digging and lifting performance together with smooth driving performance make this XE55U an ideal machine for demanding jobs.

The Kubota V2403 Tier 4F common rail diesel engine with EGR, DOC and DPF technology is an excellent match with our improved hydraulic load sensing system. This combination ensures fuel efficient and smooth control, regardless of its load. Our powerful XE55U has become therefore more fuel efficient even under heaviest circumstances and is a pleasure to operate.

Tight Tail Swing

This tight tail swing model and short slewing radius prove to be highly versatile when undertaking operations in a confined space. The left and right boom swing angle is respectively 70° and 53° , it can realize complex operation together with upper structure slewing to ensure that the digging is parallel with wall surface in narrow space through the cooperation of upper structure slewing so as to easily deal with various operating conditions.

Optional Angle Dozer Blade

The dozer blade can swing to the left and right, which makes the machine operate more efficiently when grading.

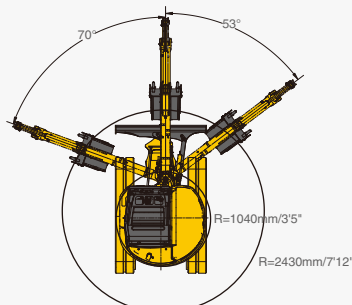
Complete Equipped with AUX1, AUX2, and Quick Coupler lines.

With the multiple programmable 2-way proportional auxiliary lines and quick-coupler piping the XE55U meets almost all your attachment needs.

Boom, Arm Safety Valves and Blade Holding Valve as Standard

The XE55U is fitted as standard with a boom cylinder safety valve, an arm cylinder valve and a dozer holding valve to dig and handle all your material in a safe way.

Features such as suspension seat, adjustable armrests, storage compartments and one powerful AC can reduce the operator's fatigue during long working hours. And the 7" color LCD display with comprehensive machine information, along with ergonomically designed control layouts and roller switch makes your jobs easier.



Most compact one than ever.

Operational Comfort

› Ergonomic and Comfortable

With the XE55U, your comfort comes first. The cab has a wide entrance door, which makes it more accessible. The OPG/TOPS/ROPS(ISO 3471) cabin maximises your safety.



Excellent Visibility

› The Canopy Guarantees Superior Visibility

The four post canopy provides the operator with clear view and easy entrance and exit on the condition that safety and comfort are guaranteed. When operating in confined areas, great visibility can increase productivity. Features such as multiple rear view mirrors, working lights, handrails, emergency stop, and large entrance make sure that the operator is safe during operations.



› Easy Service Access

Our XE55U is developed with taking particular attention to easy service access, with a single access point for the daily maintenance of all main components, fuel level gauge and refuelling through the lockable cap.



One-sided Engine Maintenance

The XE55U is designed for lower maintenance cost with longer service intervals, which results in more machine availability on-site. Meanwhile, skilled XCMG-trained technicians are available to provide extra support when needed.



Safety Features

› To Protect the Machine and Operating Sites

The routes of hydraulic pipelines and hoses are well-organized; the arm cylinder is guarded; and the front light is integrated under the boom to avoid impacts and damages from rocks and other debris during operations. The continuous rubber tracks can minimize damage made to the paved operating sites. The dozer blade is covered and equipped with holding valve to eliminate the possibility of damage when the blade is not utilized.



› To Protect the Operator and People Around

The TOPS/OPG certified cab is equipped with rotation warning beacon, emergency stop within reach, lock lever, rear mirrors on both sides, battery disconnect switch, and top lights, these features make sure that both the operator and people around the machine can be well-protected.





Technical Specifications

Engine

Make/model	Kubota/V2403/Tier 4F
Fuel/cooling	Diesel/Liquid, forced circulation
No. of cylinders	4
Piston displacement	2434 cm ³ (0.6 gal.)
Power output	30.7 kW (41.2 hp) (ISO 14396)
Max torque	159.8 N·m/1500 rpm (117.9 ft·lb/1500 rpm)
Bore × stroke	87 mm × 102.4 mm (3.4 in. × 4 in.)
Alternator	12 V · 60 A

Hydraulic system

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

› Pump

Type	Load-sensing axial-piston pump with variable displacement
Total hydraulic capacity	158.4 L/min (41.8 gal./min)
AUX1 maximum flow rate	110 L/min (29 gal./min)
AUX2 maximum flow rate	75 L/min (19.8 gal./min)
AUX1 standard relief pressure	210 bar (3045 psi)
AUX2 standard relief pressure	170 bar (2465 psi)

› Maximum system pressure

Boom	320 bar (4641.2 psi)
Arm / bucket / travel	320/320/284 bar (4641.2/4641.2/4119.1 psi)
Swing	230 bar (3335.9 psi)

Digging forces (ISO 6015)

Digging force, standard arm (ISO 6015)	24.3 kN (5462.9 lbf.)
Digging force, long arm (ISO 6015)	23.4 kN (5260.5 lbf.)
Digging force, bucket (ISO 6015)	44.5 kN (10004 lbf.)

Fluid capacities

Cooling system (radiator capacity)	12 L (3.2 gal.)
Engine lubrication plus oil filter	9.5 L (2.5 gal.)
Fuel tank	65 L (17.17 gal.)
Hydraulic tank	46 L (12.2 gal.)
Hydraulic system	44 L (11.6 gal.)
Final drive case (each)	1 L (0.3 gal.)

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

Bottom rollers (per side)	5
Track shoes	Rubber
Overall track length	2490 mm (8'2")
Shoe width	400 mm (16")

Environment

Noise levels comply with environmental regulations (dynamic values).

› Noise emission

Noise level LpA (ISO 6396)	79 dB(A)
Noise level LwA (ISO 6395)	96 dB(A)

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 system

Boom swing, left	70°
Boom swing, right	53°
Slew rate	9.5 rpm

Drive

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

› Speed & traction

Travel speed (low - high)	2.8-4.6 km/h (1.7-2.9 mph)
Traction force	52.8 kN (11869.9 lbf.)
Gradeability	70%/35°

Weight

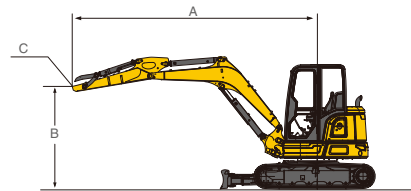
Operating weight with cab	5700 kg (12566 lb.)
Operating weight with canopy	5600 kg (12346 lb.)
Ground pressure	32 kpa (4.6 psi)
Transport weight with cab	5626 kg (12403.2 lb.)
Transport weight with canopy	5526 kg (12182.7 lb.)
Weight of steel tracks	310 kg (683.4 lb.)
Weight of rubber tracks	240 kg (529.1 lb.)
Additional weight for long arm	27 kg (59.5 lb.)

Lifting Capacities

XE55U

Standard arm: 1570 mm(5.15 ft) • shoe: 400 mm(1.31 ft) • without bucket

A		2 m/6.6 ft		3 m/10 ft		4 m/13.3 ft		5 m/16.6 ft		At Max.Reach		
B												Max.
4 m/13.3 ft	kg/lb					1260/2772	800/1760			*1160/*2552	730/1606	4.1 m/13.7 ft
3 m/10 ft	kg/lb					1250/2750	790/1738			930/2046	580/1276	4.8m/15.9 ft
2 m/6.6 ft	kg/lb		1857.4/4094.8	1900/4180	1150/2530	1220/2684	760/1672	*880/*1936	550/1210	810/1782	510/1122	5.2 m/17.2 ft
1 m/3.3 ft	kg/lb			1800/3960	1070/2354	1180/2596	730/1606	*860/*1892	540/1188	810/1782	500/1100	5.2 m/17.2 ft
Ground Line	kg/lb	*1990/*4378	1900/4180	1760/3872	1030/2266	1150/2530	700/1540	*850/*1870	530/1166	830/1826	510/1122	5 m/16.6 ft
-1 m/-3.3 ft	kg/lb	3600/7920	1910/4202	1750/3850	1020/2244	1150/2530	700/1540			940/2068	580/1276	4.6 m/15.2 ft
-2 m/-6.6 ft	kg/lb	*3300/*7260	1950/4290	1770/3894	1040/2288					1250/2750	760/1672	3.8 m/12.4 ft



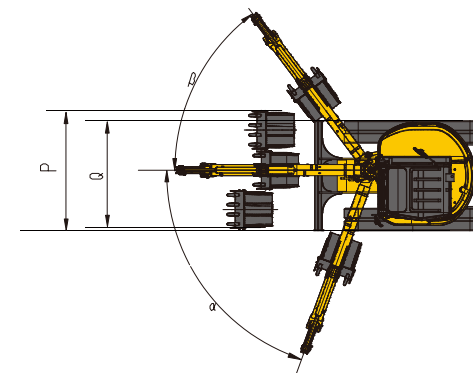
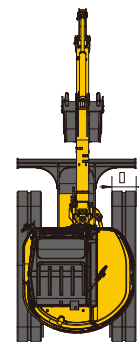
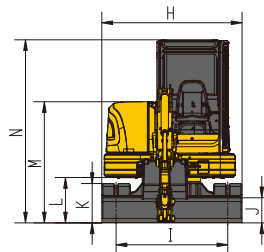
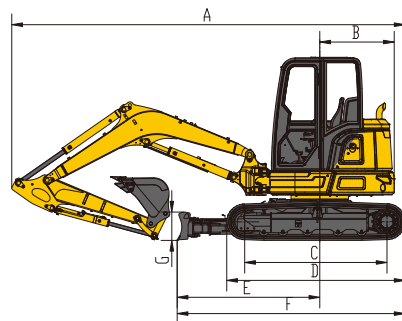
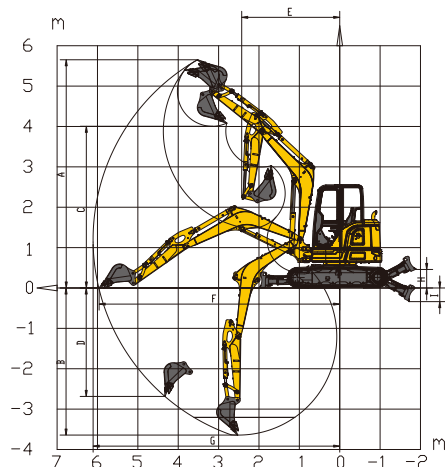
 : Over front
 : Over side or 360°

A: Reach from swing centerline to bucket hook
 B: Bucket hook height above/below ground
 C: Lifting capacities in kilograms

- The lifting capacity is based on the ISO10567 standard.
- * = The maximum lifting capacity is limited by the hydraulic capacity of the machine.
- The lifting capacity does not exceed 87% of the hydraulic capacity or 75% of the tipping load with the machine on level and firm ground.
- The operator should be familiar with the machines operating- and maintenance manual. Local regulations concerning the safe operation of machinery must be followed at all times.
- The lift diagrams only covers machines that are originally built by XCMG: without lifting chains and any other lifting equipment.
- When the excavator is used to lift or handle materials, it must comply with local regulations.



Technical Specifications



Dimensions

Working range

A	Maximum digging height - std arm	5650 mm (18'6")
	Maximum digging height - long arm	5770 mm (18'11")
B	Maximum digging depth - std arm	3640 mm (11'11")
	Maximum digging depth - long arm	3880 mm (12'9")
C	Maximum dumping height - std arm	4010 mm (13'2")
	Maximum dumping height - long arm	4310 mm (14'2")
D	Maximum vertical wall digging depth - std arm	2690 mm (8'10")
	Maximum vertical wall digging depth - long arm	2900 mm (9'6")
E	Minimum swing radius - std arm	2430 mm (7'12")
	Minimum swing radius - long arm	2490 mm (8'2")
F	Maximum digging reach at ground level - std arm	5960 mm (19'7")
	Maximum digging reach at ground level - long arm	6175 mm (20'26")
G	Maximum digging reach - std arm	6110 mm (20'1")
	Maximum digging reach - long arm	6320 mm (20'9")
H	Maximum dozer lifting height	450 mm (18")
I	Maximum dozer cutting depth	400 mm (16")

Other

Standard arm	1570 mm (5'2")
Long arm	1900 mm (6'3")
General purpose bucket	0.16 m ³ (0.2 yd ³)

A	Overall length	5340 mm (17'6")
B	Tail slew radius	1040 mm (3'5")
C	Tumbler length	1990 mm (6'6")
D	Track length	2490 mm (14'9")
E	Dozer blade, maximum reach at ground level	1995 mm (6'7")
F	Undercarriage length	3185 mm (10'5")
G	Dozer blade height	400 mm (16")
H	Overall width	1960 mm (6'4")
I	Track gauge	1560 mm (5'1")
J	Minimum ground clearance	315 mm (12")
K	Track height	550 mm (22")
L	Ground clearance of counterweight	637 mm (25")
M	Overall height of engine hood	1695 mm (5'7")
N	Overall height	2555 mm (8'5")
O	Track shoe width	400 mm (16")
P	Working width at maximum right-hand rotation	2130 mm (6'12")
Q	Working width at maximum left-hand rotation	1960 mm (6'5")
R	Maximum boom offset to the right	815 mm (32")
S	Maximum boom offset to the left	605 mm (24")
a	Maximum boom swing angle to the right	53°
B	Maximum boom swing angle to the left	70°

Undercarriage

Rubber tracks	400 mm (16")
Steel tracks	400 mm (16")

Standard and Optional Equipment

Engine		
Engine model	Kubota V2403	
Emission stage	T4F	
DOC	●	
DPF	●	
Fuel-water separator with water level indicator	●	
Radial seal air cleaner	●	
Air prefilter(Cab)	●	
Radiator	●	
Fuel oil gauge	●	
Fuel-water quickly release device	●	
Auto idle	●	
Radiator for fuel	●	

Hydraulic system		
Auxiliary hydraulic valve	●	
Single or dual way pipeline	●	
Quick coupler piping	●	
Two-way piping	●	
Shifted block of quick coupler piping	●	
Hydraulic oil ISO VG 46	●	
Hydraulic oil ISO VG 32	○	
Hydraulic oil ISO VG 68	○	
Electric proportional joysticks on the left and right	●	
Spare valve plate	●	
Operation mode switching	●	
Pressure monitor gauge	●	

Cab & interior		
Mechanical suspension seat	●	
Up and down adjustable seat handrail	●	
Front windshield divided by 70/30 ratio(Cab)	●	
Toughened windscreens and other toughened windows(Cab)	●	
Sliding upper door window(Cab)	●	
Air conditioner(Cab)	●	
Seven inches color LCD display with warning,filter / liquid refill and working hours information	●	
Travel control pedal with detachable manual control lever	●	
Double stereo speaker(Cab)	●	
Cup holder	●	
Coat hook(Cab)	●	
Washable floor mat	●	
Safety belt	●	
High and low travel speed switch	●	
Reserved switch for working attachment	●	
Skylight(Cab)	●	
Windshield wiper(Cab)	●	
File packet(Cab)	●	
Emergency exit on rear window(Cab)	●	
Hammer for emergency escape(Cab)	●	
Fire extinguisher bracket	●	

Undercarriage		
Track guards for both sides	○	
2x5 bottom rollers	●	
2x1 carrier rollers	●	
Tow ring on the bottom frame	●	
400 mm(16")rubber track	●	
2x40 joints, 400 mm(16")steel track with triple grouser shoes	○	
Guard kits: Bottom sealing plate of undercarriage, sealing plate of travel motor	●	
2x40 rubber track block	○	
Dozer	●	

Boom, arm and bucket		
Boom-2850 mm(9'4")	●	
Arm-1570 mm(5'2")	●	
0.16 m³(0.2 yd³)/631 mm(2'1")Bucket	●	
Arm-1900 mm(6'3")	○	
0.07 m³(0.09 yd³)(Earth work bucket)	○	
Quick Coupler	○	
Thumb	○	
Breaking Hammer	○	
Scarifier	○	
Timber grab	○	

Electrical system		
Battery (750 CCA)	●	
60 A alternator	●	
2 kW starter motor	●	
12 V cigarette lighter	○	
USB interface(5 V)(Cab)	●	
AM-FM radio with digital display(Cab)	●	
DAB bluetooth digital radio(Cab)	○	
Rotating beacon	●	
Two front working light on the cab(LED)	●	
One rear working light on the cab(LED)	●	
One working lights on the boom(LED)	●	
12 V Electric power interface	●	
Interior light(Cab)	●	

Conterweight		
0.71 t (1565 lb)counterweight	●	

Lubrication system		
Centralized lubrication system for slewing motor, slewing bearing and deflection cylinder	●	

Safety and guards		
Lock for the cab door and each cabin(Cab)	●	
Warning horn	●	
The quick coupler button with warning	●	
Wiper motor protection box(Cab)	●	
Battery disconnect switch	●	
Overheating warning	●	
Anti-skid plate/ anti-skid paste	●	
Hydraulic safety locking lever	●	
Left and right rearview mirrors	●	
Rearview mirror for cab	●	
Anti-burst valve on the boom	○	
Anti-burst valve on the arm	○	
Protective hood for anti-burst valve	○	
Roll over protective structure	●	
Operator protective guard	○	
Rubber stopper for bolt hole on the cover	●	
Hydraulic lock for dozer	●	
Emergency stop switch	●	

Optional		
Dozer deflection	○	
Hydraulic quick coupler	○	
Mechanical quick coupler	○	
Scarifier	○	
Thumb	○	
Bucket(300 mm 0.04 m³)(11"/0.05 yd³)	○	
Bucket(450 mm 0.1 m³)(1'6"/0.13 yd³)	○	
Bucket(600 mm 0.13 m³)(1'12"/0.17 yd³)	○	
Bucket(1200 mm 0.29 m³)(3'11"/0.38y d³)	○	

- Standard: ●
- Optional: ○
- Some of these standard or optional equipment may not be available for certain markets.

· Pictures may include attachments and optional equipment that are not available in your area. · Materials and specifications are subjected to change without advance notice.

· Please contact your local XCMG dealer for more information on availability or to customise your machine to suit your applications requirements.

Optimum Services, XCMG Guaranteed



XCMG approved
attachments



Genuine parts



Financial
solutions



Maintenance
contract



Professional Integrated Complete Solutions

XCMG group has built a strong reputation based on the quality, reliability and durability of its construction machinery. What's more, XCMG has gradually established a service network to constantly provide its local integrated and highly efficient complete solutions for all customers.

Full Range of Services Ready for you

In order to respond to your needs as fast as possible, XCMG experts are on their way to your job site from one of our facilities near you. Full range of services are available in order to reduce your total cost of ownership and increase your revenue.

The available attachments include but not limited to the following:

Hydraulic quick
coupler



Hydraulic thumb



Hammer



Timber grab



