

Mini Excavators XE27U



Rated Power: 15.4 kW (20.7 hp)
Operating Weight: 2780 kg (6129 lb)
Operating Weight with canopy: 2680 kg (5908 lb)
Standard Bucket Capacity: 0.06 m³ (0.08 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 XE27U comes with every feature you expect from a mini excavator in its tonnage.

Variable angle boom, 72° to the left and 55° to the right, reduced swing tail, and standard rubber track give you an edge when undertaking operations in confined sites such indoors, basement, garden, and community landscapes.

Powered by a reliable 20.7 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 manual quick coupler. You will finish the operations with ease and comfort in the jobsite.





Compact Machine with Excellent Performance

A Superior Model with Considerate Design

Developed with the concept of “Safe, Reliable, Efficient and Comfortable”, the XE27U hydraulic excavator offers additional value to the operator. New features are presented making the machines more productive, versatile, and cost effective.

- Kubota T4F engine D1105, along with our load-sensing hydraulic system provides efficiency and fuel economy.
- This compact short-tail excavator is designed to perform a wide variety of tasks on the most challenging jobsites such as in demolition, landscaping, earthmoving or material handling. It gets the job done as you expected!
- Grouped service points are within reach from the ground, making maintenance easier and reducing your potential downtime.



— Angle Boom

The left (72°) and right (55°) boom swing angles give the operator confidence and efficiency during complex operating conditions like parallel wall digging or travelling in narrow spaces.

— Made for Easy Transportation

With a set of buckets, hammer and rubber track, the XE27U weighs less than 6 200 lb. And the accessible large tow rings make it easy to switch between your jobsites.

— AUX1& 2 and Coupler Pipelines

With the multiple programmable 2-way proportional auxiliary lines and quick-coupler piping the XE27U meets almost all your attachment needs.

— Blade holding valve as standard

The XE27U is equipped with a dozer holding valve to protect the operator as well as individuals around during operations.

Operator Comfort

› Large Operator Environment with Ergonomic Control Layout

The XE27U gives the operator a large comfortable space in which to work. The ergonomic control layout, travel levers with pedals and adjustable arm rests are engineered to reduce operator fatigue and increase productivity. The cab offers sound insulated working environment with radio, stereos, suspension seat. Standard electric proportional joysticks with roller control can handle your attachments such as thumb as fine as you expected. The 7" color LCD display conforms to ergonomics and can switch to the attachment mode quickly. There are 8 languages set in system for users to select. Many automatic control functions, like intelligent fault diagnosis, maintenance information prompt, and fuel filling prompt, are set, effectively shortening the maintenance time.



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 indoors and confined areas, great visibility can increase productivity. Features such as electric proportional joysticks with roller control, LCD display, arm rest, cup holder have also been equipped for the canopy version.



One-sided Engine Maintenance

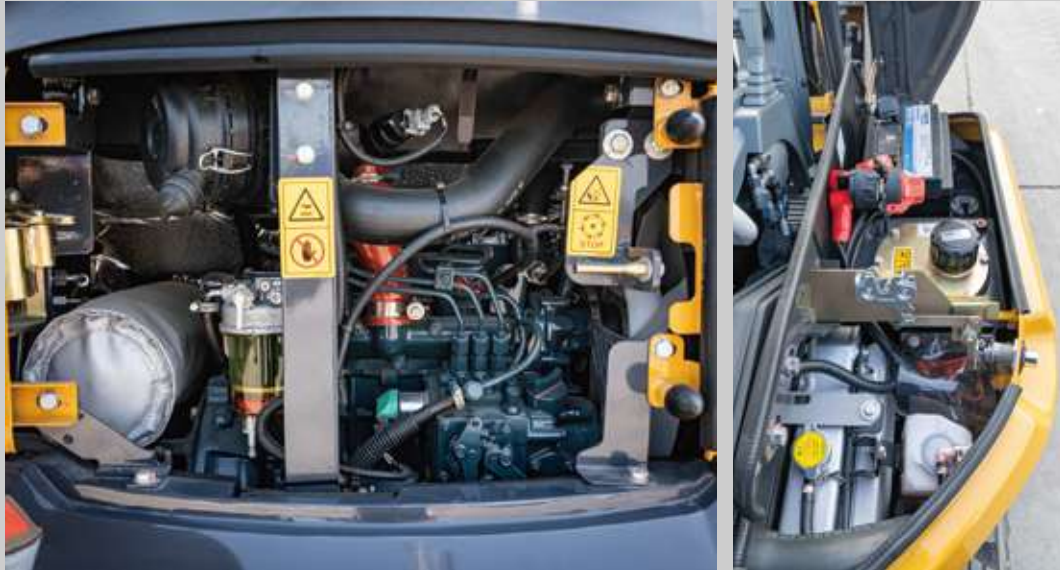
The XE27U is designed for lower maintenance cost with longer service intervals - resulting in more machine availability on-site. Meanwhile, skilled XCMG-trained technicians are available to provide extra support when needed.



Easy Access for Maintenance

► Easy Service Access

XE27U is developed with taking particular attention to ease of service access. With a single access point for the daily maintenance of all main components, fuel level gauge and refuelling through the lockable cap.



► Centralized Lubrication System

The swing motor, slewing bearing, angle boom cylinder are equipped with centralized lubricating technology. And self-lubricating bearings are utilized in the boom and arm to reduce daily maintenance time and further increase machine uptime.

Safety Features

► To Protect the Machine and Operating Sites

The routes of hydraulic pipelines and hoses are well-organized and 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 over heat warning can remind the operator when necessary to better protect the engine. And the continuous rubber tracks can minimized damage made to the paved operating sites. And the ignition socket is covered to withstand rain and dust.



► To Protect the Operator and People Around

Rotation warning beacon with buzzer, right hand side emergency stop, lock lever, rear mirrors on both sides, battery disconnect switch, and top lights make sure both the operator and people around the machine can be well-protected.





Technical Specifications

Engine

Make/model	Kubota/D1105 /Tier 4F
Fuel/cooling	Diesel/Liquid,forced circulation
No. of cylinders	3
Piston displacement	1.1 L (0.29 gal)
Power output	15.4 kW (20.7 hp) / 2400 rpm (20.7 hp/2400 rpm) (ISO 14396)
Max torque	70.3 N·m/1600 rpm (51.9 ft.lb/1600 rpm)
Bore × stroke	78.0×78.4 mm (3.1 in.×3.1 in.)
Alternator	12 V-40 A

Hydraulic system

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

› Pump

Type	Load-sensing axial-piston pump with variable displacement
Total hydraulic capacity	82.8 L/min (21.9 gal/min)
AUX1 & AUX2 maximum flow rate	25 L/min (6.6 gal/min)
AUX1/AUX2 standard relief pressure	180/180 bar (2610.7/2610.7 psi)

› Maximum system pressure

Travel	243 bar (3524.4 psi)
Boom/Arm / Bucket /	243/243/243 bar (3524.4/3524.4/3524.4 psi)
Swing	162 bar (2349.6 psi)

Digging forces (ISO 6015)

Digging force, long Arm (ISO 6015)	14 kN (3147.3 lbf)
Digging force, bucket (ISO 6015)	23 kN (5170.6 lbf)

Undercarriage

X-type undercarriage. The heavy-duty crawler chassis is very resilient with its fully welded, stressfree 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)	3
Track shoes	Rubber
Overall track length	1980 mm (6'6")
Shoe width	300 mm (12")

Fluid capacities

Cooling system (radiator capacity)	6.5 L (1.7 gal)
Engine lubrication plus oil filter	5.1 L (1.4 gal)
Fuel tank	33 L (8.7 gal)
Hydraulic tank	22 L (5.8 gal)
Hydraulic system	40 L (10.6 gal)

Environment

Noise levels comply with environmental regulations (dynamic values).

› Noise emission

Noise level LpA (ISO 6396)	79 dB(A)
Noise level LwA (ISO 6395)	93 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	72°
Boom swing, right	55°
Swing speed	10 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)	2.4-3.6 km/h (1.5-2.2 mph)
Traction force	29.7 kN (6676.8 lbf)
Gradeability	30°

Weight

Operating weight with cab	2780 kg (6129 lb)
Operating weight with canopy	2680 kg (5908 lb)
Ground pressure with cab	26.4 kPa (3.8 psi)
Ground pressure with canopy	25.5 kPa (3.7 psi)
Transport weight with cab (no attachment)	2700 kg (5952 lb)
Transport weight with canopy (no attachment)	2600 kg (5732 lb)
Weight of steel tracks	200 kg (440.9 lb)
Weight of rubber tracks	134.5 kg (296.5 lb)

Lifting Capacities

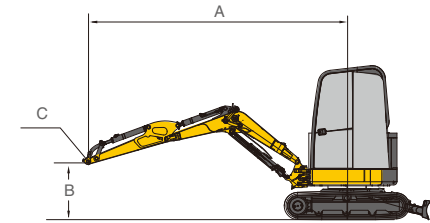
XE27U

Cab • standard arm: 1300 mm(4.3 ft) • shoe: 300 mm(0.98 ft) • without bucket

A		1 m/3.3 ft		2 m/6.6 ft		3 m/9.8 ft		4 m/13.1 ft		At Max.Reach		
B												Max.
3 m/9.8 ft	kg/lb					*435/*959	360/793.7			402/886.3	290/639.3	3.3 m/11 ft
2 m/6.6 ft	kg/lb					*479/*1056	350/771.6			310/683.4	220/485	3.9 m/12.8 ft
1 m/3.3 ft	kg/lb			847/1867.3	525/1157.4	455/1003	321/707.7	294/648.2	207/456.4	282/621.7	198/436.5	4.1 m/13.4 ft
Ground Line	kg/lb			791/1743.9	525/1157.4	430/948	298/657			290/639.3	203/447.5	3.9 m/13 ft
-1 m/-3.3 ft	kg/lb			794/1750.5	527/1161.8	425/937	294/648.2			350/771.6	244/537.9	3.4 m/11.3 ft
-2 m/-6.6 ft	kg/lb	*1229/*2709.5	*1229/*2709.5	*596/*1314	562/1239					*475/*1047.2	465/1025.2	2.2 m/7.4 ft

Canopy • standard arm: 1300 mm(4.3 ft) • shoe: 300 mm(0.98 ft) • without bucket

A		1 m/3.3 ft		2 m/6.6 ft		3 m/9.8 ft		4 m/13.1 ft		At Max.Reach		
B												Max.
3 m/9.8 ft	kg/lb					*435/*959	346/763			386/851	278/613	3.3 m/11 ft
2 m/6.6 ft	kg/lb					466/1027	336/741			296/653	210/463	3.9 m/12.8 ft
1 m/3.3 ft	kg/lb			811/1788	551/1215	435/959	307/677	281/619	197/434	269/593	189/417	4.1 m/13.4 ft
Ground Line	kg/lb			756/1667	501/1105	410/904	284/626			277/611	193/425	3.9 m/13 ft
-1 m/-3.3 ft	kg/lb			758/1671	503/1109	406/895	280/617			334/736	232/511	3.4 m/11.3 ft
-2 m/-6.6 ft	kg/lb	*1229/*2710	*1229/*2709.5	*596/*1314	538/1186					*475/*1047	445/981	2.2 m/7.4 ft



 : Over front
 : Over side or 360°

A: Reach from swing centerline to bucket hook

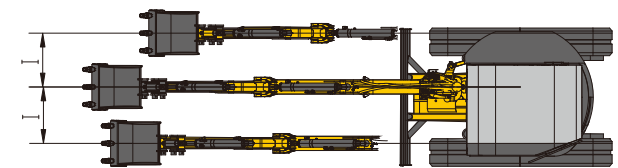
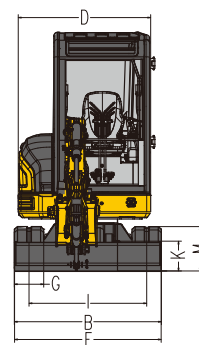
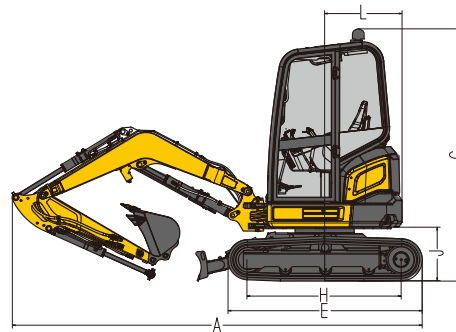
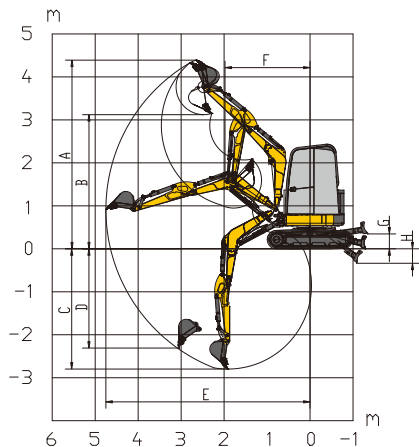
B: Bucket hook height above/below ground

C: Lifting capacities in kilograms

- 1.The lifting capacity is based on the ISO10567 standard.
- 2.* = The maximum lifting capacity is limited by the hydraulic capacity of the machine.
- 3.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.
- 4.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.
- 5.The lift diagrams only covers machines that are originally built by 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



Working range

A	Maximum digging height	4390 mm (14'5")
B	Maximum dumping height	3120 mm (10'3")
C	Maximum digging depth	2800 mm (9'2")
D	Maximum vertical wall digging depth	2310 mm (7'7")
E	Maximum digging radius	4750 mm (15'7")
F	Minimum swing radius	1980 mm (6'6")
G	Maximum Dozer Lifting Height	310 mm (12")
H	Maximum Dozer Cutting Depth	330 mm (13")
I	Boom deflection distance(left/right)	610/585 mm (24"/23")

Dimensions

A	Overall length	4190 mm (13'9")
B	Overall width	1500 mm (4'11")
C	Overall height	2580 mm (8'6")
D	Width of platform	1350 mm (4'5")
E	Length of crawler	1980 mm (6'6")
F	Width of chassis	1500 mm (4'11")
G	Width of crawler	300 mm (12")
H	Distance between tumblers	1560 mm (5'1")
I	Track gauge	1200 mm (3'11")
J	Counterweight clearance	535 mm (21")
K	Minimum ground clearance	290 mm (11")
L	Minimum tail swing radius	790 mm (31")
M	Track height	457 mm (18")

Standard and Optional Equipment

Engine

Air cleaner with clogging indicator	●
Air cleaner with double filter element	●
Collecting cylinder engine oil filter	●
Collecting cylinder main fuel filter	●
Radiator auxiliary water tank	●
Fuel-water separator	●
Alternator	●

Hydraulic system

Control valve with LS relief valve	●
Pilot filter	●
Oil suction filter	●
Accumulator	●
Hydraulic oil ISO VG 46	●
Hydraulic oil ISO VG 32	○
Hydraulic oil ISO VG 68	○
Two-way piping	●
One-way/two-way piping	●
Quick coupler piping	●

Cab & interior

AM-FM radio with bluetooth(Cab)	●
DAB bluetooth digital radio(Cab)	○
All-weather soundproof steel structure cab	●
Cup holder	●
Double stereo speaker(Cab)	●
Engine key switch	●
Emergency hammer	●
Fire extinguisher bracket	●
Washable floor mat	●
Footrest	●
Mechanical suspension seat	●
Openable upper front windshield(Cab)	●
Removable front lower windshield(Cab)	●
Tempered glass slide window(Cab)	●
Intermittent windshield wiper(Cab)	●
Retractable safety belt	●
Electric proportional joystick on left and right	●
Travel pedals with detachable manual control lever	●
Coat hook	●
High and low travel speed switch	●
Heater	●
Emergency power supply	●
Interior light(Cab)	●
Rearview mirror	●
Color LCD display	●

Undercarriage

Track tensioning mechanism	●
Tow ring on the bottom frame	●
Bottom sealing plate of undercarriage	●
Sealing plate of travel motor	●
One track guards for each side (with steel track)	○
Dozer	●
300 mm(12")rubber track with 2x80 joints	●
300 mm(12")steel track	○
One carrier roller and three bottom rollers for each side	●

Boom, arm and bucket

Boom-2.09 m(6'10")	●
Arm-1.3 m(4'3")	●
0.06 m³(0.078 yd³)/458 mm(1'6") bucket	●
Manual quick coupler	●
Thumb	●
Breaking Hammer	○
Scarifier	○

Electrical system

Battery(1 x60 AH)	●
12 V cigarette lighter	○
12 V electric power port	●
Engine cooling water temperature display	●
Fuel level display	●
Engine speed display	●
Working hour meter	●
Warning of engine oil pressure and overheat	●
Charge indicator	●
Air filter blockage warning	●
Engine preheat indicator	●
Two front working light on the cab(LED)	●
Two rear working light on the cab(LED)	●
One working lights on the boom(LED)	●
Rotating beacon	●

Conterweight

0.35 t(772 lb)counterweight	●
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Lubrication system

Centralized lubricating system of slewing bearing,slewing motor and angle boom cylinder	●
Self-lubricating bearings for boom,arm and bucket	●

Safety and guards

Lock for the cab door and each cabin	●
Warning horn	●
The quick coupler button with warning	●
Protective box for wiper motor	●
Battery disconnect switch	●
Dozer blade holding valve	●
Anti-burst valve on the boom	○
Anti-burst valve on the arm	○
Anti-burst valve guard	○
Hydraulic safety locking lever	●
Emergency escape hammer	●
Left and right rearview mirrors	●
Front guard net	○
Cab with std TOPS/ROPS and opt OPG when mounted front guard net	○
Canopy with TOPS/ROPS/OPG	●

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:

Manual quick
coupler



Hydraulic thumb



Hammer



