

Mini Excavators XE18U



Rated Power: 11.8 kW (15.8 hp)
Operating Weight: 1795 kg(3968.3 lb)
Standard Bucket Capacity: 0.04 m³(0.05 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 XE18U comes with every feature you expect from a mini excavator in its tonnage.

Variable angle boom, 60° to the left and 50° to the right, zero swing tail, and retractable undercarriage give you an edge when undertaking operations in confined sites such indoors, basement, garden, and community landscapes.

Powered by a reliable 15.8 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.





High Performance in Tight Conditions

Compact Machine with Excellent Performance

This mini excavator is ready for today's tough jobs. The XE18U with OPG/TOPS/ROPS(ISO 3471) canopy provides excellent visibility, stability, optimal comfort and safety for the operator to finish jobs in tight corners that demand precision control and state-of-the-art performance. Features, such as, Zero-tail swing, hydraulic retractable undercarriage, angle boom, and powerful digging forces can always give the operator confidence. Added with high reliability, low operating costs, and superior efficiency, and you've got the ideal mini machine for a wide range of demanding jobs.



— Zero-tail Swing

With zero-tail swing, even the most confirmed space costs no troubles for the operator. The tail always stays within the width of the tracks (when extended) when you turn the canopy throughout its 360-degree turning radius not worries about damaging any objects. During the engineering stage of the zero-tail XE18U, balance, fast and smooth operation were our main targets. With these targets in mind, we launched this compact excavator with excellent features to its full potential in urban environments, landscaping, minor demolition and other utilities works.

— Extended Undercarriage

With the standard hydraulic retractable undercarriage passing through a narrow doorway or gate is easy. While the extended undercarriage guarantees the operator better stability, lifting and loading performance.



— Angle Boom

The left (60°) and right (50°) boom swing angles give the operator confidence and efficiency during complex operating conditions like parallel wall digging or travelling in narrow spaces.

— AUX1 Attachment Pipelines

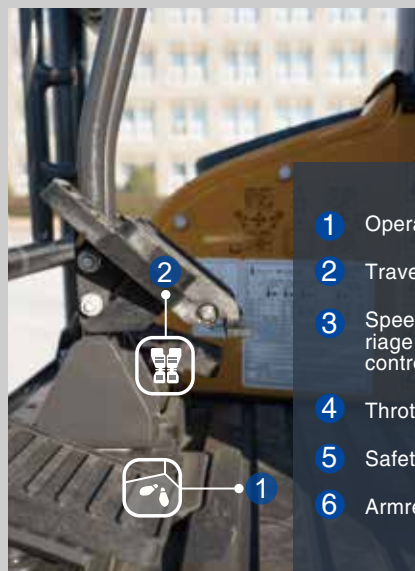
The standard single-way and dual-way auxiliary hydraulic pipelines are ideal for easy control of multiple attachments.

Operational Comfort

Spacious Operator Environment with Ergonomic Control Layouts

The XE18U provides an uncompromised operator environment, which, together with excellent visibility, provides unmatched operator comfort and safety. This machine is built around the operator, which provides optimal ergonomics for operators of all sizes. Access to the seat is convenient thanks to the large canopy.

Features like adjustable armrests, color monitor, cup holder, washable mat, adjustable seat belt, the operator can finish the work with ease.



- 1 Operation station
- 2 Travel padel
- 3 Speed shift & undercarriage retract lever & blade control lever
- 4 Throttle lever
- 5 Safety lever
- 6 Armrest

Easy Access for Maintenance

The tilting cab provides quick and easy access to all inspection and maintenance points

› Easy Service Access

The XE18U is developed with particular attention of convenient service access. All main components including engine oil filter, fuel filter, air cleaner, and water separator are grouped in a single access point when the rear hood is open for daily service. And the grouped fluid filling points can be easily accessed under the canopy.



Lower cost of ownership

The XE18U is designed for lower maintenance cost with longer service intervals, which results in more machine uptime on-site. Meanwhile, the skilled XCMG-trained technicians are available to provide extra supports when required.



- | | | |
|---------------------|--------------------------|--------------------------|
| 1 Fuel filter | 5 Engine oil level check | 9 Battery |
| 2 Water separator | 6 Coolant | 10 Main switch |
| 3 Air filter | 7 Start motor | 11 Radiator & Oil cooler |
| 4 Engine oil filter | 8 DC generator | |

Safety Features

› To Protect the Machine and Operating Sites

The routes of hydraulic pipelines and hoses are well-organized and the blade cylinder is guarded to avoid impacts and damages from rocks and other debris during movements. The over heat warning can remind the operator when necessary to better protect the engine. And the continuous rubber tracks can minimize damage made to the paved operating sites.



› To Protect the Operator and People Around

Rotation warning beacon with buzzer, emergency stop, lock lever, rear mirrors on both sides, battery disconnect switch, and the large OPG/TOPS/ROPS certified canopy with four-post make sure both the operator and people around the machine can be well-protected.





Technical Specifications

Engine

Make/model	Kubota/D902/Tier 4F
Fuel/cooling	Diesel/Liquid, forced circulation
No. of cylinders	3
Piston displacement	0.9 L (0.24 gal)
Power output	11.8 kW/2300 rpm (15.8 hp /2300 rpm)
Max torque	51.3 N·m/1800 rpm (37.8 ft.lb/1800 rpm)
Bore × stroke	72 mm×73.6 mm (2.8 in.×2.9 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
Maximum system flow rate	64.4 L/min (17 gal/min)
AUX1 maximum flow rate	45 L/min (11.9 gal/min)
AUX1 standard pressure	180 bar (2610.7 psi)

> Maximum system pressure

Boom	253 bar (3669.5 psi)
Arm / bucket / travel	253/253/210 bar (3669.5/3669.5/3045.8 psi)
Swing	110 bar (1595.4 psi)

Undercarriage

Retractable 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)	3
Track shoes	Rubber
Overall track length	1564 mm (5'2")
Shoe width	230 mm (9")

Fluid capacities

Cooling system (radiator capacity)	4 L (1.1 gal)
Engine lubrication plus oil filter	3.8 L (1 gal)
Fuel tank	17 L (4.5 gal)
Hydraulic tank	19 L (5 gal)
Hydraulic system	29 L (7.7 gal)

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)	2.1-3.7 km/h (1.3-2.3 mph)
Traction force	21.4 kN (4810.9 lbf)
Gradeability	30°

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. A two position swing lock secures the upper structure for transportation.

> Swing system

Boom swing, left	60°
Boom swing, right	50°
Swing speed	9 rpm

Environment

Noise levels comply with environmental regulations (dynamic values).

> Noise emission

Noise level LwA (ISO 6395)	93 dB(A)
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Digging forces (ISO 6015)

Digging force, standard arm (ISO 6015)	10 kN (2248.1 lbf)
Digging force, long arm (ISO 6015)	8 kN (1798.5 lbf)
Digging force, bucket (ISO 6015)	16 kN (3596.9 lbf)

Weight

Operating weight with canopy and bucket (ISO 6016)	1795 kg (3957.3 lb)
Ground pressure with rubber tracks	0.29 kgf/cm ² (4.1 psi)
Transport weight (no attachment)	1720 kg (3792 lb)
Weight of steel tracks	103 kg (227.1 lb)
Weight of rubber tracks	62 kg (136.7 lb)
Additional weight for long arm	12 kg (26.5 lb)

Lifting Capacities

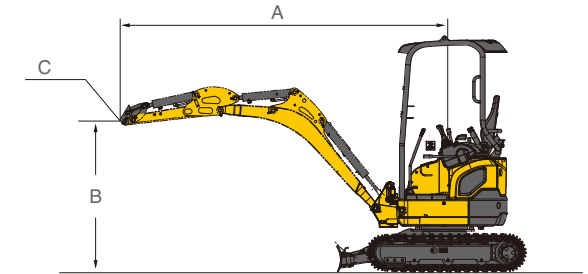
XE18U

Canopy • standard arm: 950 mm(3.1 ft) • shoe: 230 mm(0.75 ft) • without bucket

B \ A		1 m/3.3 ft		2 m/6.6 ft		3 m/9.8 ft		At Max.Reach		Max.
										
2 m/6.6 ft	kg/lb			*296.2/*652	*296.2/*652			313.2/689	256.8/565	2.9 m/9.6 ft
1 m/3.3 ft	kg/lb			536.2/1180	427.8/941	296.7/653	242.3/533	258.3/568	211.2/465	3.3 m/10.8 ft
Ground Line	kg/lb			500.6/1101	394.7/868	285.8/629	231.7/510	256.8/565	208.9/460	3.2 m/10.4 ft
-1 m/-3.3 ft	kg/lb	*970.1/*2134	*970.1/*2134	497.3/1094	391.6/862			316.9/697	255.6/562	2.7 m/9 ft

Canopy • long arm: 1120 mm(3.6 ft) • shoe: 230 mm(0.75 ft) • without bucket

B \ A		1 m/3.3 ft		2 m/6.6 ft		3 m/9.8 ft		At Max.Reach		Max.
										
2 m/6.6 ft	kg/lb					*299.9/*661.2	246.5/543.4	*299.7/*660.7	230.5/508.2	3.1 m/10.2 ft
1 m/3.3 ft	kg/lb			*508.4/*1120.8	424.1/935	*329.1/*725.5	237.6/523.8	*280.4/*618.2	192.7/424.8	3.4 m/11.3 ft
Ground Line	kg/lb			*586.1/*1292.1	385.5/850	*327.6/*722.2	225.5/497.1	*261.7/*576.9	190.5/420	3.4 m/10.1 ft
-1 m/-3.3 ft	kg/lb	*905.4/*1996.1	*905.4/*1996.1	*450.1/*992.3	380.7/839.3			*248.1/*547	228/502.7	2.9 m/9.6 ft



 : Over front
 : Over side or 360°

A: Reach from swing centerline to bucket hook

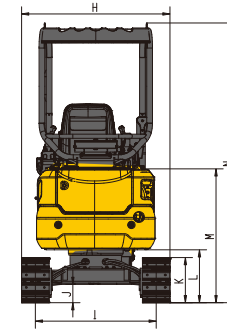
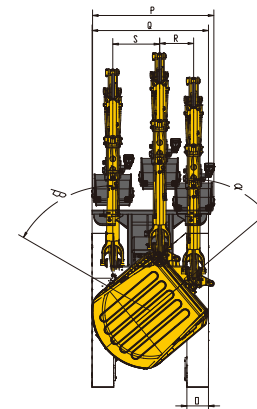
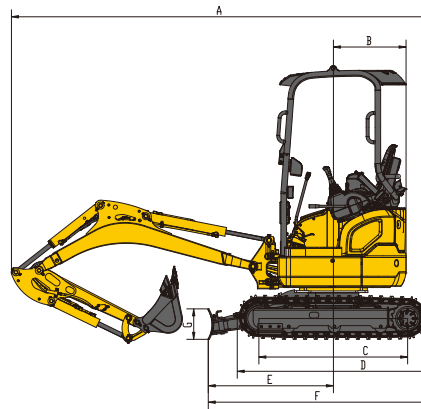
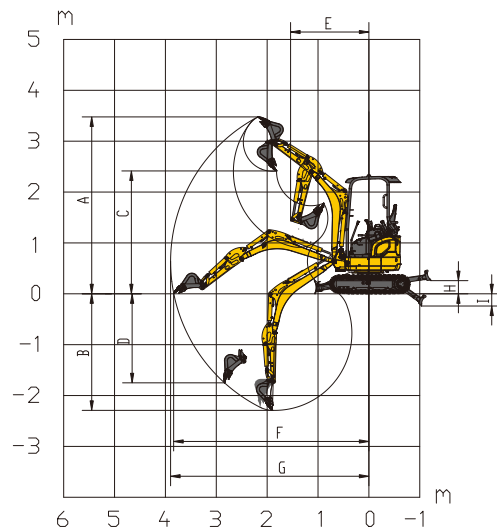
B: Bucket hook height above/below ground

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



Dimensions

Working range

A	Maximum digging height - std arm	3475 mm (11'5")
	Maximum digging height - long arm	3495 mm (11'6")
B	Maximum digging depth - std arm	2290 mm (7'6")
	Maximum digging depth - long arm	2450 mm (8'0.5")
C	Maximum dumping height - std arm	2415 mm (7'11")
	Maximum dumping height - long arm	2550 mm (8'4")
D	Maximum vertical wall digging depth - std arm	1750 mm (5'9")
	Maximum vertical wall digging depth - long arm	1970 mm (6'6")
E	Minimum swing radius - std arm	1550 mm (5'1")
	Minimum swing radius - long arm	1585 mm (5'2")
F	Maximum digging reach at ground level - std arm	3840 mm (12'7")
	Maximum digging reach at ground level - long arm	3950 mm (12'12")
G	Maximum digging reach - std arm	3900 mm (12'10")
	Maximum digging reach - long arm	4005 mm (13'2")
H	Maximum dozer lifting height	230 mm (9")
I	Maximum dozer cutting depth	280 mm (11")

A	Overall length	3560 mm (11'8")
B	Tail slew radius	620 mm (24")
C	Tumbler length	1230 mm (4')
D	Track length	1564 mm (5'2")
E	Dozer blade, maximum reach at ground level	1155 mm (3'9")
F	Undercarriage length	1970 mm (6'6")
G	Dozer blade height	250 mm (10")
H	Overall width	990/1300mm (39"/4'3")
I	Track gauge	760/1070mm (30"/3'6")
J	Minimum ground clearance	148 mm (6")
K	Track height	346 mm (14")
L	Ground clearance of counterweight	468 mm (18")
M	Overall height of engine hood	1135 mm (3'9")
N	Overall height	2485 mm (8'2")
O	Track shoe width	230 mm (9")
P	Working width at maximum right-hand rotation	1300 mm (4'3")
Q	Working width at maximum left-hand rotation	1235 mm (4'1")
R	Maximum boom offset to the right	335 mm (13")
S	Maximum boom offset to the left	500 mm (20")

› Standard and Optional Equipment

Engine

Auto-preheating	●
Radial seal air cleaner	●
Air prefilter	●
Fuel oil gauge	●
Fuel-water quickly release device	●
Air pressure difference indicator	●

Hydraulic system

Single or dual way pipeline	●
Hydraulic oil ISO VG 46	●
Hydraulic oil ISO VG 32	○
Hydraulic oil ISO VG 68	○
Common joysticks on left and right	●

Cab & interior

Canopy(TOPS/ROPS/OPG)	●
Standard seat	●
Adjustable handrail up and down	●
Color LCD display with warning and working hours information	●
Travel control pedal with detachable manual control lever	●
Cup holder	●
Washable floor mat	●
Retractable safety belt	●
High and low travel speed switch	●
Pedal valve with double circuit control	●
File packet	●

Undercarriage

Track guards for both sides	○
2x3 bottom rollers	●
2x2 chain support plate	●
Tow ring on the bottom frame	●
230 mm(9")rubber track	●
2x37 joints track , 230 mm(9")track with double steel grouser shoes	○
Guard kits: sealing plate of travel motor	●
Dozer	●

Boom, arm and bucket

Boom-1.828 m(5'12")	●
Arm-0.95 m(3'1")	●
0.04 m³(0.0 5yd³)/435 mm(1'5")bucket	●
Arm-1.12 m(3'8")	○
0.02 m³(0.026 yd³)bucket	○
Scarifier	○
Breaking Hammer(without accumulator)	○
Timber grab	○
Quick Coupler	○

Electrical system

Battery (430 CCA)	●
40 A alternator	●
1.2 kW starter motor	●
One working light on the boom	●
Travel buzzer	●
Rotating beacon	●
Emergency stop switch	●

Conterweight

0.17 t(375 lb)counterweight	●
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Safety and guards

Rear hood lock	●
Warning horn	●
Battery disconnect switch	●
Overheating warning	●
Safety handrail	●
Hydraulic safety locking lever	●

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



