Mini Excavators

XE45U

XCMG

Rated Power: 29.7 kW (39.8 hp)
Operating Weight: 4800 kg (10582 lb)
Standard Bucket Capacity: 0.11 m^3 (0.14 yd^3)

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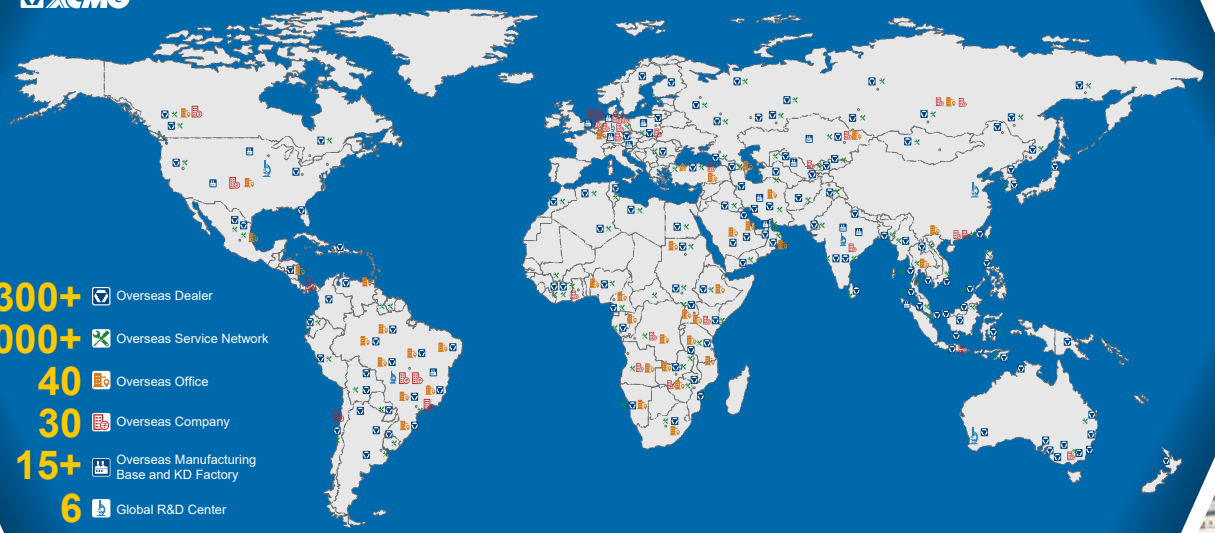





INTRODUCTION OF XCMG

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 XCMG XE45U excavator

The XE45U is suitable for various applications such as landscaping, municipality, and general constructions. Its large-angle swing boom design enhances adaptability to working conditions. The hydraulic auxiliary pipeline pressure and flow are adjustable to accommodate different operational needs. The load sensing system is equipped with an electronically controlled pump to ensure the attachment can be responsive. With these features, the overall efficiency is greatly improved.

Standard auxiliary circuits

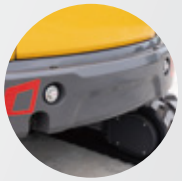
The flow and pressure of two standard auxiliary circuits are adjustable to meet demands of both single and dual way attachments.

Safety on jobsites

The operator can have extra view and confidence on the jobsites with the optional rear view camera and LED work lights.

Large boom cylinder

The large diameter boom cylinder is more powerful during loading and unloading on the truck and operations such as Boom-Stabilizing steer.



Outstanding stability

Larger undercarriage dimensions and optional extra counterweight deliver exceptional stability and lifting capacity.

7-inch touch screen

A Large screen with comprehensive machine information and functions to adjust operational settings.

Floating angle blade

Backfilling and grading are made easy and efficient with standard angle blade that can float during operations controlled by an integrated blade lever.

Small Machine with Excellent Performance

Highly adaptable

The turbocharged Kubota D1803 engine meets the T4F emission standards, utilizing high-pressure common rail, electronically controlled direct injection, and turbocharging technologies to achieve optimal fuel injection control, enhance combustion efficiency, and demonstrate strong adaptability to high altitudes, making it more energy-efficient and environmentally friendly.

The enhanced boom and arm, coupled with the high-pressure system design, ensure that the entire machine possesses the strongest excavation force in its tonnage, easily meeting various working conditions and operational requirements.

The extensive use of special processes and high-strength, wear-resistant steel in the development, and manufacturing of structural components has significantly enhanced the strength and service life of the products, enabling them to easily handle various harsh working conditions.

High configurations for better efficiency. The overall efficiency is improved with variable angle boom, floating angle dozer blade, hydraulic coupler and thumb.

Excellent performance

The hydraulic system is efficient and fast, with optimized design of the valve spool, reducing pressure loss inside the channel, improving controllability, and enhancing the overall multi function efficiency of the machine.

Equipped with a fully upgraded, new-type electronically controlled high-efficiency main pump, it boasts large displacement and high power, achieving higher operational efficiency.

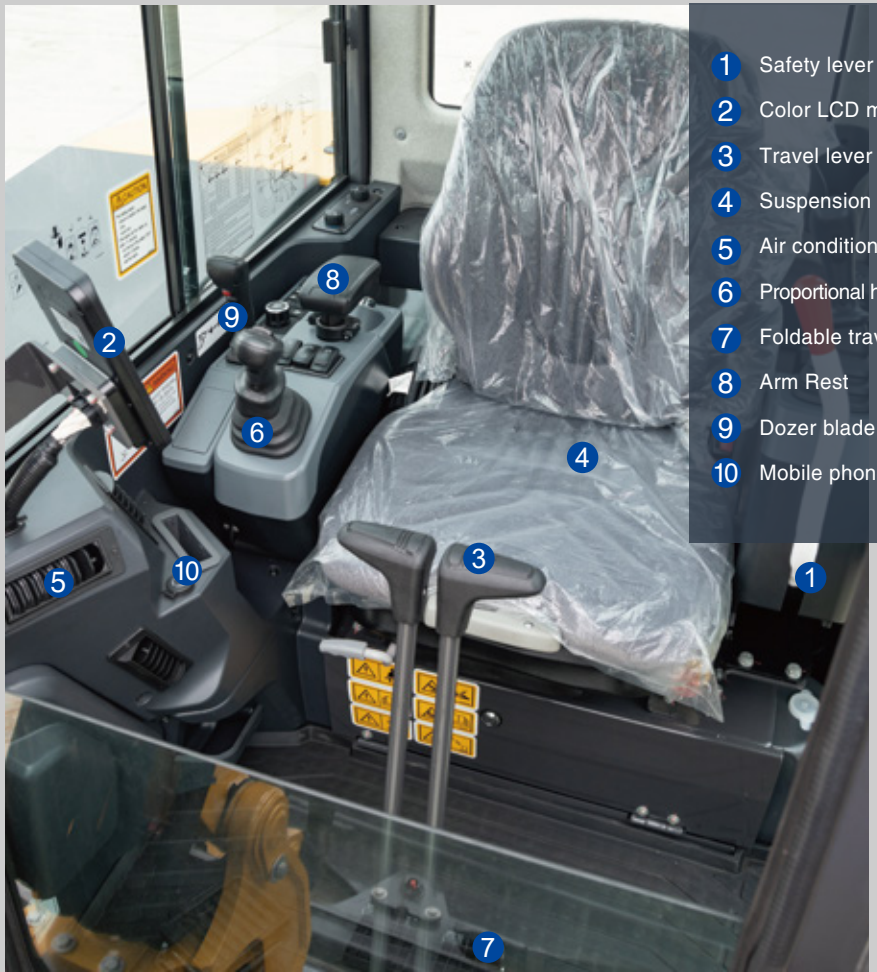
The intelligent electronic control system achieves optimal matching control of engine speed and hydraulic pump, achieving dynamic balance between the power and hydraulic systems, resulting in higher operational efficiency and lower fuel consumption. Its fuel efficiency ratio surpasses that of similar tonnage models.

The operational performance has been further enhanced, offering more refined control to improve the performance of grading and loading. With the extra counterweight, the whole machine is more stable during operations.

Operational Comfort

› Comfort

High performance shock absorbers can effectively isolate specific frequency bands and improve comfort.
A brand new cab, complemented by luxurious interior, with a sunroof design that provides a wider view, and centrally arranged operation buttons, upgrading the operating experience comprehensively.
The new generation 7-inch screen features a large color LCD display with excellent visibility and a more user-friendly human-machine interface.
High power air conditioning with multiple air ducts and a three-dimensional air supply system, equipped with advanced sound system, making various operations convenient, comfortable, and within reach.



1. Safety lever
2. Color LCD monitor
3. Travel lever
4. Suspension seat
5. Air conditioning
6. Proportional hydraulic joysticks
7. Foldable travel pedal
8. Arm Rest
9. Dozer blade lever
10. Mobile phone holder

Easy Access for Maintenance

› Easy Service Access

Equipped with a new type of color LCD display screen and scheduled reminders for machine maintenance, making users more worry free and comfortable.

Easy to reach daily maintenance points: Whether it's the fuel filter, oil filter, pilot filter, or air filter, they can all be directly repaired and maintained on the ground.

The lubrication points of the boom and arm adopt a centralized lubrication arrangement, making lubrication easier.

1. Coolant
2. Oil filter
3. Radiator
4. Engine aftertreatment

Excellent Reliability and Safety Features

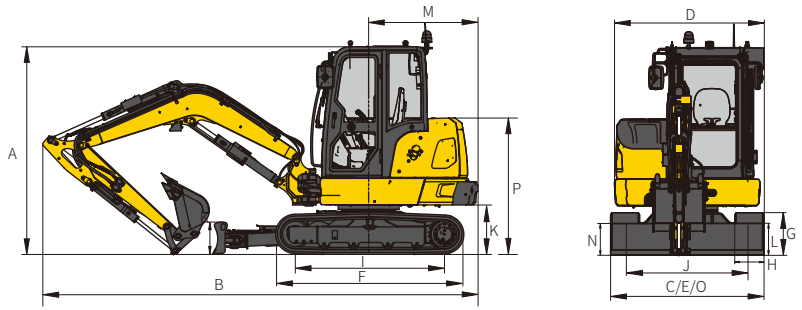
› Reliability Improvement

Using special processes and high-strength, wear-resistant steel to develop and manufacture structural components, significantly improving the strength and service life of the product.
Full size heavy-duty reinforced undercarriage structure, combined with reinforced boom and arm design, ensures the stability of the entire machine while meeting strong excavation force.
Dual fuel filters protect the fuel system; Two stage fuel-water separation to achieve high particle filtration accuracy, and strong adaptability to fuel quality.

› Safety

Emergency stop switch, when the machine is in a dangerous state, it can quickly cut off the power supply of the whole machine, stop the operation of the equipment, and protect the machine and human around.
The entire machine is equipped with LED lights, which have good brightness, long lifespan, wide angle, and are safer for night construction.
Alarm lights and electronic buzzer with mute function, integrated with sound and light, ensure safer operations and transition at night.The OPG/TOPS/ROPScertified cab further improves the safety of the operator under dangerous circumstance.
Optional rear camera to improve jobsite safety for both the machine and the surroundings.

Machine dimensions



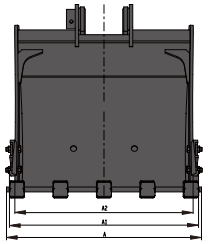
Item contents	Unit	Parameters
Boom length	mm/ft.in.	2600/8'6"
Arm length	mm/ft.in.	1600/5'3"
A Overall height		
Cab height	mm/ft.in.	2505/8'3"
OPG height	mm/ft.in.	2535/8'4"
Warning light height	mm/ft.in.	2649/8'8"
B Overall length		
Installed boom/arm/bucket	mm/ft.in.	5250/17'3"

Item contents	Unit	Parameters
C Overall width	mm/ft.in.	1850/6'1"
D Upper structure width	mm/ft.in.	1758/5'9"
E Undercarriage width	mm/ft.in.	1850/6'1"
F Track length	mm/ft.in.	2249/7'5"
G Track height	mm/ft.in.	513/20"
H Standard track shoe width	mm/ft.in.	350/14"
I Crawler base	mm/ft.in.	1800/5'11"
J Track gauge	mm/ft.in.	1500/4'11"
K Counterweight ground clearance	mm/ft.in.	597/24"
L Minimum ground clearance	mm/ft.in.	290.5/11"
M Rear-end swing radius	mm/ft.in.	1215/4' (1320/4'4" with extra weight)
N Dozer blade height	mm/ft.in.	392/15"
O Dozer blade width	mm/ft.in.	1850/6'1"
P Height of engine hood	mm/ft.in.	1647/5'5"

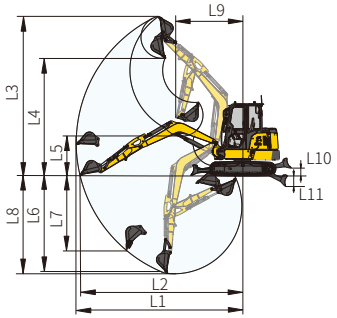
Technical specifications

Item contents	Unit	Parameters
Operating weight	kg/lb With std bucket, 75 kg/165 lb operator, 90% fuel; without coupler and thumb	4800/10582
Engine		
Engine brand/model	–	Kubota D1803
Rated power/rpm	kW(hp)/rpm	29.7(39.8)/2200
Direct injection	–	✓
Electric injection	–	✓
4-stroke	–	✓
Water-cooled	–	✓
Turbocharged	–	✓
Stroke	mm/in.	102.4/4.0
Cylinder bore	mm/in.	87/3.4
Number of cylinders	–	3
Maximum torque/rpm	N · m(lbf · ft)/rpm	150.5(111)/1500
Displacement	L/cu.in	1.826/111.4
Main performance		
Travel speed (high/low)	km/h(mph)	5.0/2.6(3.1/1.6)
Swing speed	r/min	9.5
Maximum swing torque	kN · m/lbf · ft	8.7/6417
Gradeability	–	35° (70%)
Ground pressure	kPa/psi	34/4.9
Bucket digging force (ISO)	kN/lbf.	34/7643
Arm digging force (ISO)	kN/lbf.	22/4946
Maximum traction force	kN/lbf.	40/8992
Track		
Standard track shoe width	mm/in.	350/14"
Number of track rollers (per side)	–	4
Number of track carrier rollers (carrierplate) (perside)	–	1
Hydraulic system		
Main pump	–	1 × Variable displacement pump
Maximum flow rate of main system	Lpm/Gpm	132/34.9
Main system pressure	MPa/psi	22.5/3263
Pilot system pressure	MPa/psi	3.7/537
Traveling system pressure	MPa/psi	24/3481
Swing system pressure	MPa/psi	20.6/2988
Oil capacity		
Fuel tank capacity	L/gal	65/17.2
Hydraulic oil tank capacity	L/gal	36/9.5
Cab standard		
ISO 10262: 1998 (OPG)	–	✓
ISO 12117-2: 2008 (ROPS)	–	✓

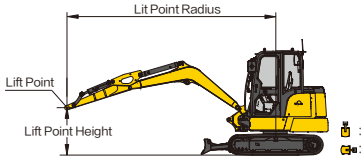
Working range and lifting capacity



Item contents	Unit	Parameters
Transportation dimensions (L*W*H)	mm/in.	751*657*635/ 30"*26"*25"
Bucket teeth radius	mm/in.	783.8/31"
Bucket width (main blade) A	mm/in.	610/24"
Bucket width (side teeth) A1	mm/in.	632/25"
Bucket width (side blade) A2	mm/in.	590/23"
Bucket capacity	m³/yd³	0.11/0.14
Weight	kg/lb	107.2/236



	Item contents	Unit	Parameters
	Length of boom	mm/ft.in.	2600/8'6"
	Length of arm	mm/ft.in.	1600/5'3"
L1	Maximum reach	mm/ft.in.	5740/18'10"
L2	Maximum reach at GRP	mm/ft.in.	5585/18'4"
L3	Maximum digging height	mm/ft.in.	5479/18'
L4	Maximum dumping height	mm/ft.in.	4052/13'4"
L5	Minimum unloading height	mm/ft.in.	1378/4'6"
L6	Digging depth at 8 feet floor length	mm/ft.in.	3210/10'6"
L7	Maximum vertical digging depth	mm/ft.in.	2680/8'10"
L8	Maximum digging depth	mm/ft.in.	3342/10'11"
L9	Minimum swing radius	mm/ft.in.	2261/7'5"
L10	Maximum lifting height of dozer blade	mm/in.	417/16"
L11	Maximum cutting depth of dozer blade	mm/in.	513/20"



Never attempt to lift or hold any load in excess of the rated lifting capacity at the specified lifting radius and height. The lifting point is located on the lifting eye of the arm.

When determining the net lifting weight allowed for the machine, the weight of the slings and any auxiliary lifting devices must be deducted from the rated lifting capacity. Lifting capacity is based on the machine standing on firm and level ground. The operator should consider working conditions such as soft or uneven ground. Before operating the machine, the operator should familiarize himself with the safety procedures in the relevant manual.

kg/lb — Dozer Blade up

In travel direction — Against travel direction — Right angle to travel direction

LD	X / Y	2.0/6.56(m/ft)			3.0/9.84(m/ft)			4.0/13.12(m/ft)			Maximum radius			m/ft
1.60 m 5.25 ft	Z2				*875 *1992	*875 *1992		887 1948	755 1664		*1267 *2793	*1267 *2793		2.2/7.22
	Z1	*1318 *2905	*1318 *2905		*952 *2098	*952 *2098		810 1785	682 1503		734 1618	625 1377		4.5/14.76
	Z3	*1536 *3386	*1536 *3386		1197 2638	986 2174		802 1768	674 1485		1017 2242	850 1873		3.4/11.15

Lifting capacities marked with an asterisk (*) are limited by hydraulic capacity, see note 2.

Note 1 The lifting capacity in the table refers to the case where no external thrust intervention is included.

Note 2 The lifting capacities marked with an asterisk (*) in the table are limited by the hydraulic capacity and should not exceed 75% of the minimum tipping load or 87% of the hydraulic capacity.

Note 3 The key stable position is on the side of excavator.

Note 4 The lifting capacity table applies only to machines originally manufactured and normally assembled by the manufacturer.

Note 5 The rated operating mass of the machine is 39600 kg/87303 lb, which includes 0.8m/2.62 ft steel tracks, 6.4 m/21.0 ft boom, 3.2 m/10.5 ft arm, 6915 kg/15244 lb counterweight, all working fluid and a 75kg/165 lb driver, excluding the bucket.

Note 6 Lifting capacity shall be in accordance with ISO 10567:2007.

Note 7 For all configured crawler specifications, the lifting capacity is kept within ±5%.

Technical Specifications

GENERAL FEATURES

Angle blade	●
Floating blade	●
Blade safety valve	●
Low temperature oil	○
Boom swing	●
Extra counterweight	○

WORK EQUIPMENT

2.6 m/8'6" boom	●
1.6 m/5'3" stick	●

HYDRAULIC SYSTEM

Single/dual way auxiliary circuit	●
Dual way auxiliary circuit	●
Boom/stick safety valves	○
Pattern change	●
Quick coupler circuit	●
Muti-function joysticks	●
Power boost	●

ELECTRIC SYSTEM

Rotation alarm	●
Working blinker	●
Travel buzzer(Mute)	●
Rear view camera	○
FM/AM radio	●
DAB radio	○
Telematics system	○
Main power switch	●
Emergency stop	●
Power source	●

LUBRICATION

Manual centralized lubrication	●

UNDERCARRIAGE

350 mm/14" rubber track	●
350 mm/14" steel track	○
350 mm/14" steel with rubber pads	○
350 mm/14" triple grouser steel track	○

ATTACHMENTS

610 mm/24" (0.11 m³/0.14 yd³) GP bucket	●
310 mm/12" (0.05 m³/0.07 yd³) GP bucket	○
652 mm/25.6" (0.12 m³/0.16 yd³) GP bucket	○
914 mm/36" (0.18 m³/0.24 yd³) clean up bucket	○
Hydraulic coupler	○
Hydraulic thumb	○

CABIN

TOPS/ROPS/OPG	●
Cab lower guards	○
Cab upper guards	○
Cab top guards	○
Cab full guards	○
Cab sunshade	●
Mechanical suspension seat	●
2" seat belt	○
3" seat belt	●
Retractable seat belt	●
Laminated glass	●
Cab top light	●

● Standard ○ Optional

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 availible 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
			

XCMG