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Mini Excavators  
**XE80E**



**XCMG European Sales and Services GmbH**

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Rated power:54.6kW  
Operating weight: 9.5t Standard  
bucket capacity: 0.35m<sup>3</sup>



## INTRODUCTION OF XCMG

Founded in 1943, XCMG is a multinational corporation with the most comprehensive range of competitive, influential products in the construction machinery industry. Our business covers eight key areas: construction machinery, heavy trucks, mining machinery, sanitation machinery, machinery components, construction, finance, and the ICT industry.

XCMG has established a global R&D network with a total of six centers in China, the US, Germany, Brazil and India, with the China national technology center at its core. In addition to a number of manufacturing bases in China, the US, Germany, the Netherlands, Poland, Austria, Brazil, India, and Uzbekistan, we possess two complete machine brands [XCMG, Schwing], and several component brands including FT and AMCA. The strength of this global R&D network and the manufacturing operations made XCMG the industry-leading global construction equipment manufacturer that it is today.

For more than 30 years, XCMG has been sowing the seeds of overseas development as the No. 1 exporter in China's construction machinery industry. Today, we have 42 branches and offices, 315 distributors, and 526 contractors in 188 countries and regions worldwide and are still growing rapidly.

## XCMG IN EUROPE

Since its foundation in 2012, XCMG is gradually establishing a complete network including: R&D department, local distribution, supply chain management and an integrated customer services and training center. Nowadays, with 3 branches, XCMG has over 100 multinational employees in Europe, of which more than 50 % are R&D engineers:

**ERC: XCMG European Research Center GmbH**  
**ESS: XCMG European Sales and Services GmbH**  
**EPC: XCMG European Purchasing Center GmbH**

Our local professional R&D team and our cutting-edge innovation platform guarantee that our products are carefully crafted to the smallest detail according to the diverse needs of European customers.





## High Performance from a Compact size

### ► Performance meets Efficiency

Designed to combine power and smoothness, the XE80E is ready to take on the challenge. This 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 XE80E complete.

- The Kubota V3307 Stage V common rail diesel engine with EGR, DOC, and DPF technology matches excellently with our improved hydraulic load sensing system. This combination ensures fuel-efficient and smooth control, regardless of its load. Our powerful XE80E thus has become more fuel efficiency even under heaviest circumstances and is a pleasure to operate.

### Compact design

The boom swing function together with the short tail swing allows you to work in very narrow areas. The left and right boom swing angle is respectively 62° and 50°, which makes the XE80E easy capable to realize complex tasks in difficult operation conditions like digging parallel to a wall in a narrow driveway.



### In full control of your hydraulic system

The XE80E is standard equipped with proportional controlled AUX1 and AUX2 lines and has quick coupler lines standard available. From the monitor you can program multiple attachments.

### Safety first

Together with the blade-holding valve, we provide the boom and arm safety valves as a standard configuration. It will make sure that you can handle all you are digging and lifting tasks in the safest way.



## Operational Comfort

### ► Ergonomic and Comfortable

The XE80E is designed to provide you with the best working conditions. The cab has a wide entrance door, which makes it more accessible. The OPG/ROPS(ISO 3471) cabin maximizes your safety.





# Easy Access for Maintenance

## ► Easy Service Access

Our XE80E was developed with particular attention to easy service access. With a single access point for the daily maintenance of all main components, fuel level gauge, and refueling through the lockable cap.



## One-sided Engine Maintenance

The XE80E 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.



- 1 Coolant
- 2 Air filter
- 3 Radiator
- 4 Engine postprocessor



# Technical Specifications

## ■ Engine

| XE80E                   |                                               |
|-------------------------|-----------------------------------------------|
| Make/Model              | Kubota/V3307CRTE5                             |
| No. of cylinders        | 4                                             |
| Rated power at 2200 rpm | 54.6                                          |
| Max. torque at 1500 rpm | 265                                           |
| Idle (low - high)       | 1200-2000                                     |
| Piston displacement     | 3.3L                                          |
| Bore × stroke           | 94mm x 120mm                                  |
| Starter                 | 12V/3.0kW                                     |
| Batteries - Alternator  | 12V/3.0kW                                     |
| Air filter              | Double element with automatic dust evacuation |

## ■ Fluid capacities

| XE80E                              |        |
|------------------------------------|--------|
| Fuel tank                          | 130L   |
| Cooling system (radiator capacity) | 14L    |
| Hydraulic oil tank                 | 110L   |
| Engine oil                         | 10L    |
| Swing drive                        | 0.5L   |
| Travel device                      | 2X1.3L |

## ■ Environment

Noise levels comply with environmental regulations (dynamic values).

### • Noise emission

| XE80E           |    |
|-----------------|----|
| Noise level LwA |    |
| Guaranteed      | 99 |
| Measured        | 99 |
| Operator LpA    |    |
|                 | 72 |

## ■ 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 per side

| XE80E                         |          |
|-------------------------------|----------|
| Upper rollers (standard shoe) | 1(140mm) |
| Lower rollers                 | 5(140mm) |
| Number of links & shoes       | 40       |
| Overall track length          | 2899mm   |

## ■ Hydraulic system

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

### • Pump

|                    | Type              | Displacement<br>[cm³/rev] | Max.flow<br>@2100rpm<br>[l/min] | Relief valve<br>pressure<br>[kgf/cm²] |
|--------------------|-------------------|---------------------------|---------------------------------|---------------------------------------|
| Main(load sensing) | Load sensing pump | 104.3                     | 219                             | 326.4                                 |

### • Maximum system pressure

| XE80E           |     |
|-----------------|-----|
| Boom/arm/bucket | 316 |
| Work/travel     | 310 |
| Swing           | 240 |

## ■ 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

| XE80E                |          |
|----------------------|----------|
| Max. swing speed     | 12 rpm   |
| Max. swing torque    | 364kgf.m |
| Boom swing angle L/R | 62/50    |

## ■ Drive

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

### • Speed & traction

| XE80E                     |             |
|---------------------------|-------------|
| Travel speed (low - high) | 2.7-4.9km/h |
| Maximum traction force    | 64kN        |
| Gradeability              | 70%/35°     |

## ■ Digging forces (ISO 6015)

At power boost.

| XE80E                                  |      |
|----------------------------------------|------|
| Digging force, standard arm (ISO 6015) | 41kN |
| Digging force, bucket (ISO 6015)       | 64kN |

## ■ Hydraulic Cylinders

|            | Quantity | Bore×rod diameter×stroke(mm) |
|------------|----------|------------------------------|
| boom       | 1        | 110x75x922                   |
| Arm        | 1        | 95x60x885                    |
| Bucket     | 1        | 85x55x742                    |
| Dozer      | 1        | 120x80x157                   |
| Boom swing | 1        | 110x65x592                   |

## ■ Weight

With 1.82 m arm and 0.35 m³ bucket

|        | Shoe width (mm) | Operating weight (kg) | Ground pressure (kPa) |
|--------|-----------------|-----------------------|-----------------------|
| Rubber | 450             | 8900                  | 39.3                  |
| Steel  | 450             | 9500                  | 42.8                  |

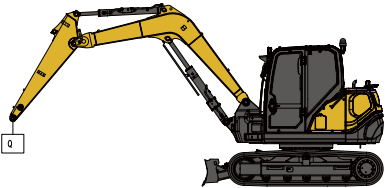


# Lifting Capacities

## XE80E

■ Cab • standard arm (1820 mm) • standard counterweight and additional counterweight • without bucket

| Lift Point Height | Over Front              |       |       |       |       |       |       | Over Side               |       |       |       |       |       |       | Max Radius [Mm] |
|-------------------|-------------------------|-------|-------|-------|-------|-------|-------|-------------------------|-------|-------|-------|-------|-------|-------|-----------------|
|                   | Lift At Max Radius [kg] | 1.0 m | 2.0 m | 3.0 m | 4.0 m | 5.0 m | 6.0 m | Lift At Max Radius [kg] | 1.0 m | 2.0 m | 3.0 m | 4.0 m | 5.0 m | 6.0 m |                 |
| 6m                | 1768                    |       |       | 3436  | 2410  |       |       | 1424                    |       |       | 3167  | 1985  |       |       | 4000            |
| 5m                | 1333                    |       |       | 2712  | 2471  | 1722  |       | 1075                    |       |       | 2712  | 1991  | 1395  |       | 5000            |
| 4m                | 1136                    |       |       |       | 2406  | 1697  | 1268  | 914                     |       |       | 1928  | 1371  | 1024  |       | 6000            |
| 3m                | 1034                    |       |       |       |       | 1639  | 1247  | 829                     |       |       |       |       | 1316  | 1004  | 6000            |
| 2m                | 987                     |       |       |       |       | 1570  | 1214  | 789                     |       |       |       |       | 1251  | 973   | 6000            |
| 1m                | 980                     |       |       |       |       | 1513  | 1183  | 783                     |       |       |       |       | 1196  | 943   | 6000            |
| 0m                | 1016                    |       |       |       |       | 1480  | 1164  | 811                     |       |       |       |       | 1165  | 925   | 6000            |
| -1m               | 1077                    |       |       |       | 2009  | 1474  | 1166  | 883                     |       |       |       | 1556  | 1160  | 927   | 6000            |
| -2m               | 688                     |       |       |       | 1639  | 1293  |       | 688                     |       |       |       | 1586  | 1182  |       | 5000            |

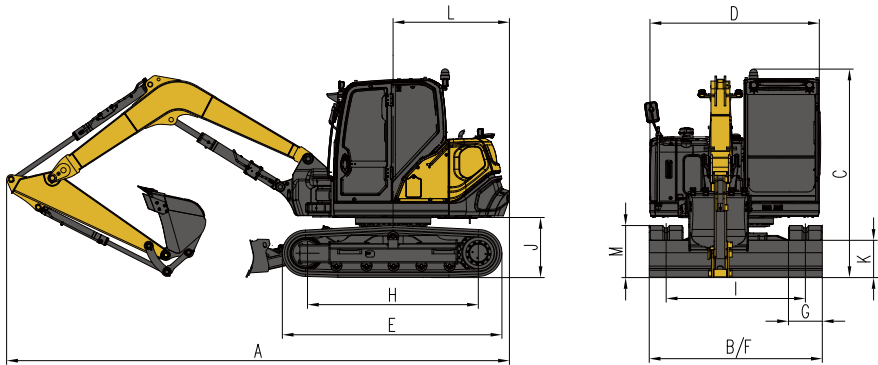
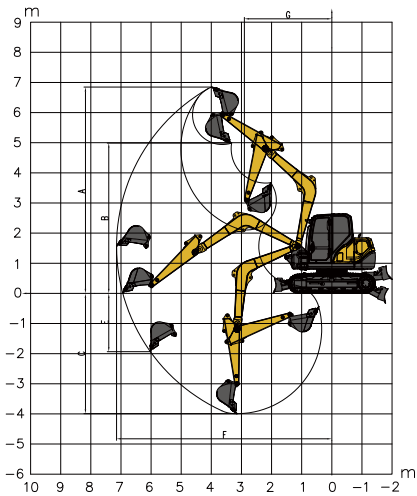


👤 : Over front  
👤👤 : Over side or 360°

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.
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 and be equipped with the necessary hose burst valves and an overload warning device complying with EN474-5.



# Dimensions & Working Range



### Working range

|   |                                  | XE80E  |
|---|----------------------------------|--------|
| A | Max. digging height              | 6850mm |
| B | Max. dumping height              | 4988mm |
| C | Max. digging depth               | 3993mm |
| E | Max. vertical wall digging depth | 1935mm |
| F | Max. digging reach               | 7145mm |
| G | Min. swing radius                | 2900mm |

### Dimensions

|   |                               | XE80E       |
|---|-------------------------------|-------------|
| A | Overall length                | 6585mm      |
| B | Overall width                 | 2300mm      |
| C | Overall height                | 2730mm      |
| D | Width of platform             | 2250mm      |
| E | Length of crawler             | 2900mm      |
| F | Overall width of chassis      | 2300mm      |
| G | Width of crawler              | 450mm       |
| H | Track length on ground        | 2272mm      |
| I | Crawler gauge                 | 1850mm      |
| J | Clearance under counterweight | 818.5mm     |
| K | Min. ground clearance         | 386.5mm     |
| L | Min. tail swing radius        | 1450/1545mm |
| M | Height of track               | 698mm       |

## Standard and optional equipment

### Engine

Kubota Engine V3307, EU Stage V, EGR, DPF ●

### Hydraulic system

Single or dual way pipeline (AUX1) ●  
Dual way pipeline (AUX2) ●  
Third oil return pipeline ●  
Hydraulic quick coupler line ●  
Fingertip proportional control ●

### Cab & interior

TOPS/ROPS ●  
OPG ○  
Mechanical suspension seat ●  
Wear-resistant textile suspension seat with retractable belt ○  
Air conditioning ●  
Color LCD monitor ●  
AM/FM radio with Bluetooth ○  
DAB radio with Bluetooth ●

### Safety

Boom, arm and dozer cylinder safety valves ●  
Travel alarm ●  
Rotating beacon ●  
Engine overheat warning and restart prevention system ●  
Quick coupler switch with alarm ●  
Emergency stop switch ●  
Front and top cab protection ○  
LED work lights (2 on cab-front, 1 on cab-rear, 2 on boom, 1 on rear hood) ●  
Rear camera ●

### Undercarriage

Fixed undercarriage ●  
Dozer blade ●  
Tie down bracket ●  
Rubber tracks 450 mm ●  
Steel tracks 450 mm ○  
Track rubber block ○

### Other

Standard arm 1823 mm ●  
General purpose bucket 0.35 m³ ○  
Quick coupler, attachments such as hammer, clamshel ○

Standard: ●  
Optional: ○

-Some of this 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 subject to change without advance notice.  
-Please contact your local XCMG dealer for more information on availability or to customize your machine to suit your applications requirements.

# Optimum services , XCMG Guaranteed



XCMG-approved attachments



Genuine parts



Extension of warranty



Financial solutions



Maintenance contract



Telematics

## Professional Integrated Complete Solutions

The 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.



XCMG Global Spare Parts System



Mobile cranes



Excavators



Aerial work platforms



Wheel loaders



Road machinery

