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Hydraulic Excavators
XE20E



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Rated Power: 11.8 kW
Operating Weight: 2,050 kg
Standard Bucket Capacity: 0.04 m³





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

EPC: XCMG European Purchasing Center GmbH

ESS: XCMG European Sales and Services 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.





XCMG XE20E can deliver substantial benefits on a wide variety of projects, especially in tight corners that demand precision control and state-of-the-art performance. The XE20E features the following highlights: economy, retractable undercarriage, efficiency and versatility, comfortability and easy access for maintenance.

► Economy

The XE20E is equipped with imported Kubota engine, which meets the Euro V emission standard, economy and high reliability; it has strong green power and excellent performances.

Retractable undercarriage

With the standard hydraulic retractable undercarriage, it can easily pass through narrow doorways or gates. The undercarriage guarantees the operator better stability together with improved lifting and loading performance.



Efficiency and versatility

The working mechanism can deflect to the left and right by 75 and 60 degrees respectively, which enables it to make compound slewing operations with upper structure, so that the machine can excavate ground while standing parallel to the wall. AUX1 plus AUX2 line as standard can meet the needs of diversified attachments. Besides, the left and right electric proportional joysticks can bring more comfortable operating experience

COMFORTABILITY

To ensure operator comfort, we offer a spacious cab with heating function and fresh-air conditioner system to provide more comfortable operating conditions. This machine is designed in an operator friendly manner – providing optimal ergonomics for operators of all sizes. Access to the seat is convenient thanks to the large entry.



Operation Comfort

► Large Operator Room with Ergonomic Control Layout



- 1 Spacious operator's space
- 2 Large travelling pedal
- 3 Mechanical suspension seat
- 4 Hammer
- 5 Throttle lever
- 6 High quality loudspeaker
- 7 Proportional hydraulic joysticks
- 8 Emergency stop
- 9 Color LCD monitor
- 10 Safety lever
- 11 Cup holder
- 12 Heater



Easy Access For Maintenance

► Easy Service Access

The XE20E is developed with particular attention to the ease of service access. With a centralized layout for the daily maintenance of all main components, engine and other vital components can be inspected quickly and easily.



- 1 Water separator
- 2 Air filter
- 3 Start motor
- 4 DC generator
- 5 Coolant

The XE20E is designed for lower maintenance costs with longer service intervals—resulting in more machine availability on-site. Moreover, skilled XCMG-trained technicians are available to provide extra support when needed.



Technical Specifications

■ Engine

| XE20E | |
|-------------------------|---|
| Model | Kubota/D902/EU Stage V |
| Number of cylinders | Diesel/Liquid, forced circulation |
| Rated power at 2300 rpm | 3 |
| Bore × stroke | 898 cm ³ |
| Power output | 11.8 kW (15.8 hp) /2300 rpm (ISO 14396) |
| Max. torque | 51.3 Nm/1800 rpm |
| Piston displacement | 72 mm×73.6 mm |
| Alternator | 12 V/40 A |
| Air filter | |

■ 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

| XE20E | |
|--------------------------|--------|
| Track rollers (per side) | 3 |
| Track shoes | Rubber |
| Shoe width | 230mm |
| Overall track length | 1564mm |

■ Environment

Noise levels comply with environmental regulations (dynamic values).

| XE20E | |
|----------------------------|------|
| Noise level LwA (ISO 6395) | 93db |

■ Swing mechanism

• Swing system

| XE20E | |
|-------------------|--------|
| Boom swing, left | 75° |
| Boom swing, right | 60° |
| Slew rate | 8r/min |

■ Drive

• Speed & traction

| XE20E | |
|--|------|
| Digging force, standard arm (ISO 6015) | 8KN |
| Digging force, bucket (ISO 6015) | 16KN |

■ Digging forces(ISO6015)

| XE20E | |
|---------------------------|--------------|
| Travel speed (low - high) | 2.2- 3.1km/h |
| Maximum traction | 14KN |
| Maximum gradeability | 30° |

■ Hydraulic system

The key hydraulic parts that adopt the latest technological achievements have lower energy consumption, quicker response, more precise control, smaller impact; maintain stronger digging capacity; and show excellent working efficiency. The power of the engine and the hydraulic system are perfectly matched to ensure the best fuel economy, improved fuel utilization and reduced operating cost. The new hydraulic system provides sufficient oil flow for each working mechanism to gain higher working efficiency.

• Pump flow and system pressure

| XE20E | |
|--------------------------|---|
| Main pumps, type: | Load-sensing axial-piston pump with variable displacement |
| Rated flow of main pump: | 64.4 l/min |
| Working pressure | 25.3Mpa |
| Travel system pressure | 21Mpa |
| Swing system pressure | 11Mpa |
| Pilot system pressure | 3.5Mpa |

■ Fluid capacities

| XE20E | |
|---------------------|------|
| Hydraulic capacity | 20L |
| Fuel tank capacity | 25L |
| Engine oil capacity | 3.8L |
| Hydraulic system | 16L |
| Cooling system | 4L |

■ Weight

| XE20E | |
|------------------------------------|--------|
| Operating weight with cab | 1975kg |
| Ground pressure with rubber tracks | 28Kpa |
| Transport mass (no attachments) | 1935kg |
| Weight of rubber tracks | 106kg |

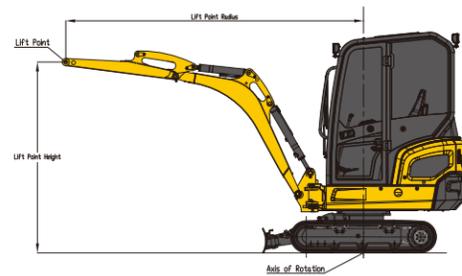
■ Digging forces (ISO)

| | |
|---------------------------------------|------|
| Digging force, standard arm (ISO6015) | 8KN |
| Digging force, bucket (ISO6015) | 16KN |

XE20E

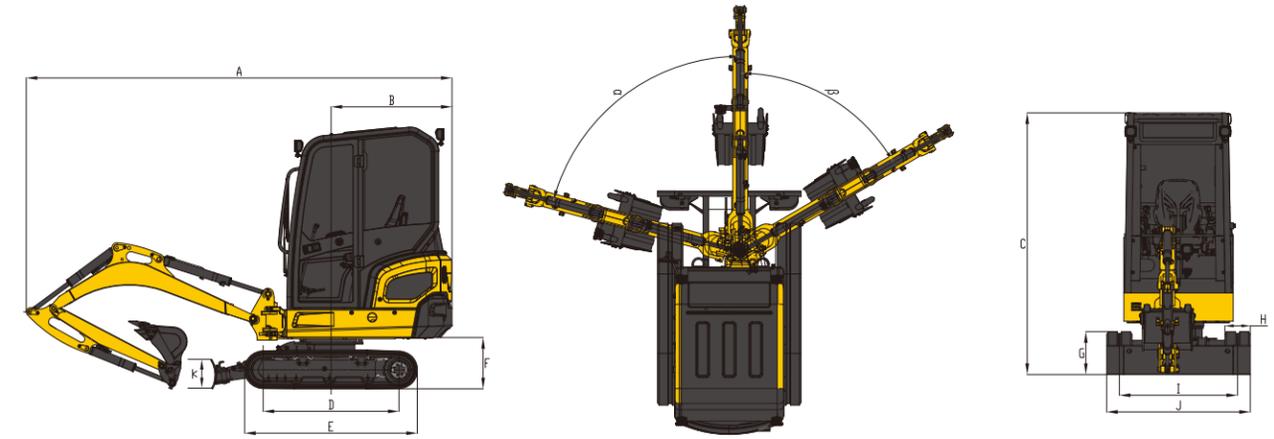
■ Cabin • standard arm(1190mm) • extended undercarriage • without bucket

| Lift Point Height | Over front | | | Over side or 360° | | | Max Radius(mm) | |
|-------------------|------------------------|---------|--------|-------------------|------------------------|----------|----------------|-------|
| | Lift At Max Radius(Kg) | 1.0 m | 2.0 m | 3.0 m | Lift At Max Radius(kg) | 1.0 m | | 2.0 m |
| 3m | *314.1 | | | *314.1 | *314.1 | | | 2,300 |
| 2m | *350.3 | | | *350.3 | *350.3 | | | 3,214 |
| 1m | *340.6 | | *562.3 | *394.9 | *340.6 | | *562.3 | 3,514 |
| 0m | *328.4 | | 743.9 | *420.4 | *328.4 | | 744.8 | 3,495 |
| -1m | *323.4 | *1043.3 | *621.3 | *337.4 | *323.4 | *1,043.3 | *621.3 | 3,057 |
| -2m | *537 | | | *537 | | | | 1,832 |



Over front
Over side or 360°

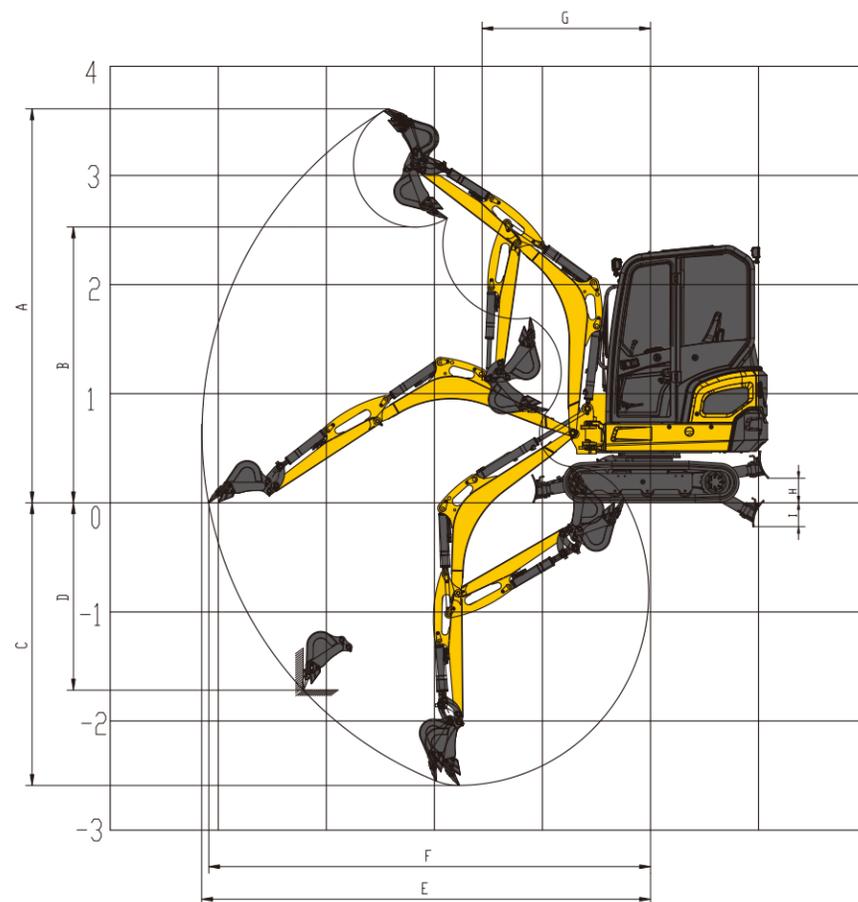
- 1.The lifting capacity is based on the ISO10567 standard.
- 2.* = The maximum lifting capacity is limited by the hydraulic capacity of the machine.
- 3.The lifting capacity does not exceed 87% of the hydraulic capacity or 75% of the tipping load when the machine stands on level and firm ground.
- 4.The operator should be familiar with the machine operation and maintenance manuals. 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, local regulations must be observed.



Dimensions

| | XE20E | |
|---|---|----------|
| A | Overall Length- mm | 3860 |
| B | Minimum Tail Swing Radius- mm | 1100 |
| C | Overall Height - mm | 2350 |
| D | Crawler base - mm | 1230 |
| E | Track length - mm | 1564 |
| F | Counterweight Clearance - mm | 465 |
| G | Track height - mm | 346 |
| H | Track Shoe Width - mm | 230 |
| I | Track Gauge - mm | 1070/760 |
| J | Overall Width - mm | 1300/990 |
| K | Dozer Blade height-mm | 250 |
| α | Maximum boom swing angle to the left - ° | 75 |
| β | Maximum boom swing angle to the right - ° | 60 |





Working range

| XE20E | | One-piece boom |
|----------------------------------|---|----------------|
| Boom length - mm | | 1810 |
| Arm length - mm | | 1190 |
| Bucket capacity - m ³ | | 0.04 |
| A | Max. digging height- mm | 3620 |
| B | Max. Dumping Height - mm | 2560 |
| C | Max. digging depth - mm | 2580 |
| D | Max. Vertical Wall Digging Depth- mm | 2140 |
| E | Max. Digging Radius - mm | 4120 |
| F | Max. digging reach at ground level- long arm - mm | 4070 |
| G | Min. Swing Radius- mm | 1520 |
| H | Max. Dozer Lifting Height - mm | 230 |
| I | Max. Dozer Cutting Depth- mm | 230 |

Engine

| | |
|-------------------------------|---|
| Air cleaner | ● |
| Dual element air filter | ● |
| Cylinder engine oil filter | ● |
| Cylinder fuel main filter | ● |
| Radiator auxiliary water tank | ● |
| Oil-water separator | ● |
| Alternator | ● |

Hydraulic System

| | |
|---|---|
| Control valve with LS relief valve | ● |
| Pilot filter | ● |
| Suction filter | ● |
| Accumulator | ● |
| Hydraulic oil ISO VG 46 | ○ |
| Hydraulic oil ISO VG 32 | ○ |
| Hydraulic oil ISO VG 68 | ○ |
| End of machine tool pipeline shut off valve | ● |
| Electric proportional joystick | ● |
| Two-way hydraulic line | ● |
| Single bidirectional switching hydraulic pipeline | ● |

Cab & Interior

| | |
|----------------------------------|---|
| AM-FM radio with digital display | ● |
| DAB bluetooth digital radio | ○ |
| Two stereo speakers | ● |
| Mechanical suspension seat | ● |
| LCD monitor | ● |

Undercarriage

| | |
|----------------------------|---|
| Track tensioning mechanism | ● |
| Retractable chassis | ● |
| 230mm rubber track | ● |
| Dozer blade | ● |
| Rubber track | ● |

Working mechanism

| | |
|------------|---|
| Boom 1.81m | ● |
| Arm 1.19m | ● |

Counterweight

| | |
|--------------------|---|
| 0.1t counterweight | ● |
|--------------------|---|

Lubrication system

| | |
|--|---|
| Centralized lubrication system of slewing motor, slewing support | ● |
|--|---|

Safety

| | |
|---------------------------------|---|
| Dozer blade holding valve | ○ |
| Boom safety valve | ○ |
| Arm safety valve | ○ |
| Left and right rearview mirrors | ● |
| Cab with TOPS/ROPS function | ● |
| Cab with TOPS/OPG/ROPS function | ○ |

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 application 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. A full range of services is 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

