



# **XE500DK**

**Hydraulic Excavator**



## **CAMC VIAL**

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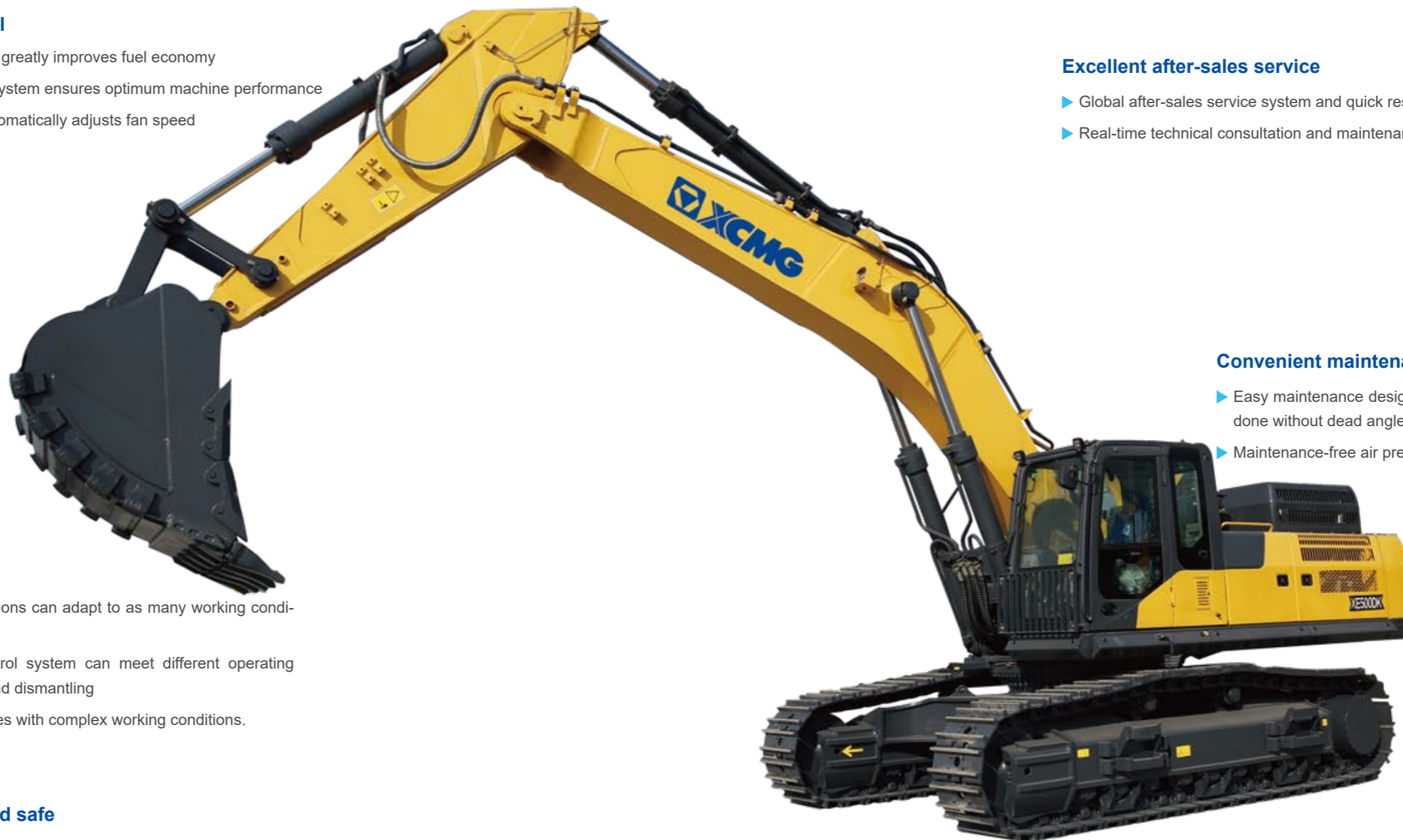
**Advanced Configuration**

**Ecological and economical**

- ▶ Professional customized engine greatly improves fuel economy  
Hydraulic oil flow regeneration system ensures optimum machine performance
- ▶ Independent cooling system automatically adjusts fan speed

**Excellent after-sales service**

- ▶ Global after-sales service system and quick response mechanism
- ▶ Real-time technical consultation and maintenance



**Convenient maintenance**

- ▶ Easy maintenance design concept makes your maintenance done without dead angle
- ▶ Maintenance-free air prefilter

**Multiple applications**

- ▶ Different boom, arm and bucket combinations can adapt to as many working conditions as possible
- ▶ Multi-functional intelligent work tool control system can meet different operating requirements such as digging, breaking and dismantling
- ▶ Instantaneous pressurization function copes with complex working conditions.

**Comfortable and safe**

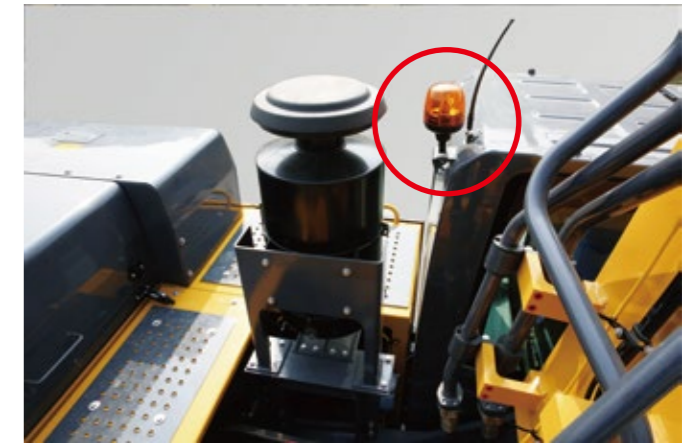
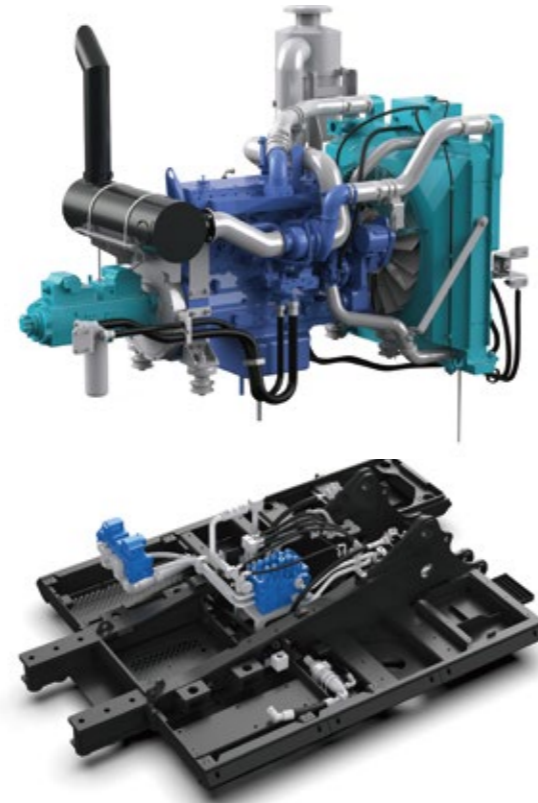
- ▶ Air Conditioner and Heater ensure the appropriate temperature
- ▶ Silicone rubber shock absorber is adopted in the cab
- ▶ Air-suspending seat equipped with electric heating function
- ▶ Integrated control panel and large display screen provide multiple information
- ▶ ROPS and FOPS Cab can improve cab safety

**Safe and durable**

- ▶ Reinforced structural parts improves lifespan
- ▶ Upgrade undercarriage structure to improve load bearing performance
- ▶ Highly reliable with the industry's most advanced variable displacement piston pump

## Ecological And Economical

- ▶ The power system uses direct injection, 4-stroke, water-cooled, turbo-charged, air-cooled, six-cylinder engine. The engine uses high-efficiency HPI fuel injection technology to achieve split-cylinder control and full electronic control, which greatly improves fuel economy. An engine specially designed and manufactured for the working conditions of construction machinery. The customized torque curve has the characteristics of low speed and high torque, low fuel consumption and good economy. At the same time, it is in constant power mode in a certain speed range, so that the machine maintains a powerful power output at heavy load and low speed.
- ▶ The hydraulic system uses boom priority, arm priority, swing priority and arm hydraulic oil flow regeneration system to ensure the best working performance of the machine. At the same time, it optimizes the design of hydraulic lines to improve return pressure loss and system back pressure. Reduced energy loss. The use of new technologies such as flow regeneration energy-saving technology, bucket convergence and pressure reduction technology and valve core opening adaptive technology further reduce oil back pressure, improve digging force and improve heavy-duty operation efficiency.
- ▶ The product is equipped with a completely independent cooling system, which can automatically adjust the fan speed according to the water temperature, intake air temperature and hydraulic oil temperature, and reduce the energy consumption of the fan as much as possible under the condition of meeting the heat dissipation requirements.
- ▶ Autonomous control technology: dedicated electronic monitor and controller for independent intellectual property rights, self-programming controller program to finely match engine working speed and pump power, make full use of engine power, improve work efficiency and effectively reduce fuel consumption.



## Comfortable And Safe

### Comfortable and safe

- ▶ The cab with supercharged function can effectively prevent dust from entering the operation room, providing a clean working environment for the driver; the frame inside the cab is strengthened, the overall structural strength is increased, the pin holes are increased before and after, and the safety performance is improved; the cab is equipped with double-layer clamps. Glue glass, which effectively filters UV rays and has a high degree of protection.
- ▶ The imported silicone oil seals the shock absorber, improves the rigidity of the cab floor, reduces the amount of cab shaking, and reduces the operator's operational fatigue.
- ▶ Warning function: The rotating warning light on the top of the cab can visually remind nearby people, and the high-volume buzzer can provide an audible reminder to nearby people.

- ▶ Wide field of vision: The whole vehicle is equipped with 4 convex rearview mirrors to realize 360° visualization; the night work light adopts high brightness, low energy consumption and can work for 20000h LED lights.
- ▶ The multi-function color liquid crystal display provides operators with comprehensive and easy-to-read machine information, comprehensively monitors the working status of the engine and hydraulic system, and can query various operation and fault diagnosis information of the machine.
- ▶ Air conditioner and heater with double-stage air filtration: the ambient temperature inside and outside can be detected by the sensor and it can be automatically adjusted to a comfortable one. With the adjustable air vents at different positions, it can provide a comfortable environment for the operators.



### Reliable And Durable

- ▶ The sturdy lower travel body can meet the needs of heavy-duty operation, and its durability, reliability and maneuverability are higher. The enhanced four-wheel belt is equipped with excellent performance and more reliable quality. It strengthens the walking frame and X-beam structure and improves the horizontal. The strength of the section, the stress of the dispersion body, can be used for harder work.



- ▶ The H-shaped boom and the arm are all integrated with a cast structure, which has uniform force and long service life. The contact surface is made of high-hardness T-sleeve, which greatly reduces surface wear and prolongs the use time. Large-capacity rock bucket The double arc design structure reduces the resistance during excavation, makes it easier to load and unload materials, and adopts the Ultralok series of teeth produced by the famous American company Esko. It has stronger penetrating power, better wear resistance and improved service life. More than doubled.

- ▶ The hydraulic system adopts the most advanced variable displacement piston pump in the industry, which has the characteristics of superior performance and long-lasting output. The high-pressure main oil circuit and the return oil pipeline are all made of steel pipe and buckled hose structure, which is resistant to impact and high reliability; the cylinder is enhanced. Support ring structure, the life is greatly improved, effectively avoiding oil leakage, pulling cylinder and other faults.
- ▶ The electrical components adopt aeronautical connectors, which have good conductivity, high protection level and high reliability.

### Maintenance And Service

- ▶ Accessible maintenance design reduces maintenance time by 10%. Integrate electrical box, air filter, diesel filter, oil filter and pilot filter to make maintenance and replacement convenient.



- ▶ The hood is designed with a gas spring-assisted side-up structure and a large opening angle for easy access to the engine and radiator.
- ▶ A protective net is arranged on the outside of the radiator to effectively prevent the inhalation of flying debris and the like, and the disassembly is convenient and the cleaning is easier.
- ▶ A wide range of after-sales service system and quick-response rescue mechanism can ensure that you use machine at ease.



**Multiple Applications Conditions**

The independently developed multi-functional intelligent work tool control system can meet different operating requirements such as digging, breaking and dismantling, and its working condition adaptability is further strengthened.

It is designed with instantaneous boost function, and you can immediately raise the boom speed or the travel traction by pressing this button.

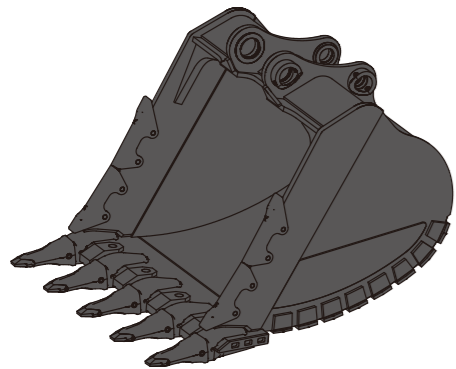


## Bucket Configuration Table

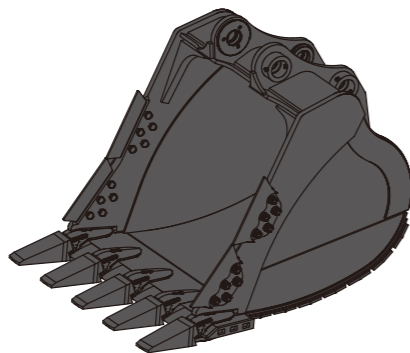
| Bucket Configuration table |             |                            |              | XE500DK |
|----------------------------|-------------|----------------------------|--------------|---------|
|                            |             | boom:6670mm                | arm:2400mm   |         |
| type                       | width<br>mm | capacity<br>m <sup>3</sup> | weight<br>kg |         |
| strengthen bucket          | 2000        | 3.1                        | 2540         | ○       |
|                            |             | boom:7060mm                | arm:3380mm   |         |
| type                       | width<br>mm | capacity<br>m <sup>3</sup> | weight<br>kg |         |
| rock bucket                | 1717        | 2.3                        | 2100         | ■       |
| strengthen bucket          | 1879        | 2.5                        | 2138         | ○       |

■ :Suitable for materials with a density less than 2100 kg/m<sup>3</sup> or less

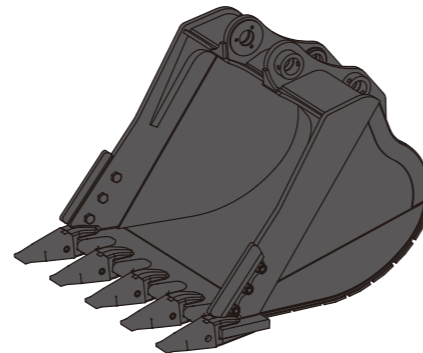
○ :Suitable for materials with density less than 1500 kg/m<sup>3</sup> or less



3.1m<sup>3</sup>strengthen bucket



2.3m<sup>3</sup>rock bucket



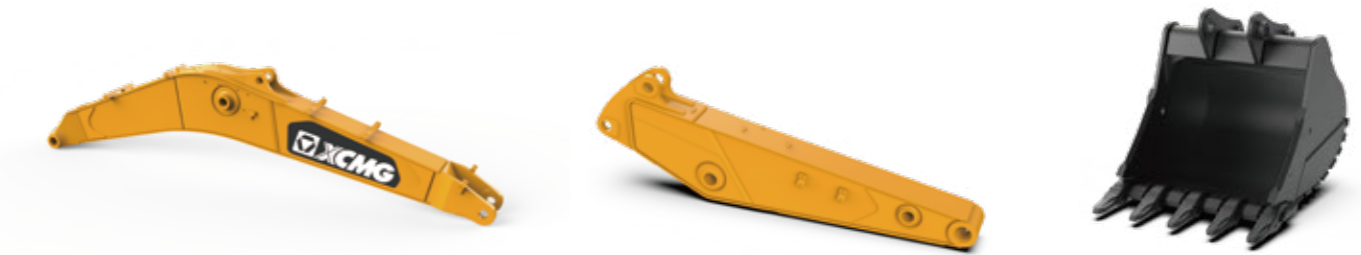
2.5m<sup>3</sup>strengthen bucket

## Combination Methods

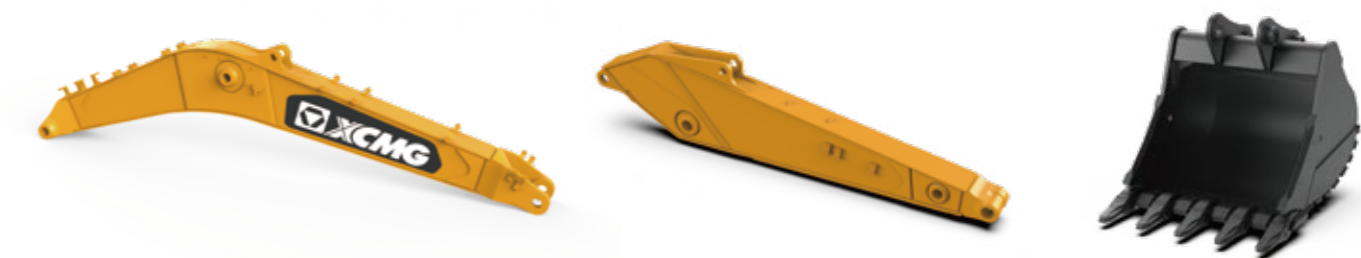
### Combination method I



### Combination method II



### Combination method III



**Standard Equipment**

|                                  |   |                                |  |
|----------------------------------|---|--------------------------------|--|
|                                  | Name of equipment                                       | XE500DK                        |  |
| Engine                           | Engine model  | QSM11                          |  |
|                                  | Emission level  | National III                   |  |
|                                  | Automatic preheating                                    |                                |  |
|                                  | Oil-water separator with water level indication sensor  |                                |  |
|                                  | Radial seal air cleaner                                 |                                |  |
|                                  | Cooling components of 50°C high temperature environment |                                |  |
|                                  | Radiator dust screen                                    |                                |  |
|                                  | Fuel marker   |                                |  |
|                                  | Independent cooling module                              |                                |  |
|                                  | Fuel breather valve                                     |                                |  |
|                                  | Air pressure difference indicator                       |                                |  |
|                                  | Automatic idle speed                                    |                                |  |
|                                  | Oil bath type air prefilter                             |                                |  |
|                                  | Hydraulic system  | Boom/arm flow regeneration     |  |
|                                  |   | Reverse rotation damping valve |  |
| Automatic rotation parking brake |   |                                |  |
| Straight hydraulic circuit       |   |                                |  |
| Boom priority valve              |   |                                |  |
| Rotary logic valve               |   |                                |  |
| Hydraulic oil ISO VG 46          |   |                                |  |
| Rotary anti-sway valve           |   |                                |  |
| Spare valve disc                 |   |                                |  |
| Gauge pressure monitoring        |   |                                |  |
| Cab and interior trim            | Pressurized cab   |                                |  |
|                                  | Fully adjustable mechanical suspension seat             |                                |  |
|                                  | Adjustable seat armrest                                 |                                |  |

|   |   |
|---|---|
| Cab and interior trim                               | Seat belt (51 mm [2 "] wide)  |
|   | Openable windscreen with auxiliary device   |
|   | Front windshield divided by 70/30 ratio   |
|   | Double laminated windshield and other toughened windows   |
|   | Sliding door upper window   |
|   | Bi-directional air outlet air conditioner with defroster (automatic type) (pressurization function)                               |
|   | Color liquid crystal display capable of displaying warning information, filter / liquid replacement information and working hours |
|   | Control handle  |
|   | Travel control pedal with detachable manual control lever   |
|   | Two stereo speakers   |
|   | Beverage cup holder   |
|   | Coat and hat hook   |
|   | Cleanable floor mat   |
|   | Retractable seat belt (51 mm [2 "] wide)  |
|   | Air conditioning system   |
| Safety and security configuration                   | High and low gears shift  |
|   | One-key boost mode  |
|   | Reserved switch for auxiliary equipment   |
|   | Shade curtain   |
|   | Top sunroof   |
|   | Intermittent multi-gear wiper   |
|   | Cup holder/envelope   |
|   | Radio receiver  |
|   | Driving door locks and cabin locks  |
|   | Alarm horn  |
| Isolation plate between engine and oil pump chamber |   |
| Rear window emergency exit                          |   |
| Battery circuit breaker                             |   |

|                                   |  |
|-----------------------------------|--|
|                                   | Boom and arm retaining valve   |
|                                   | Overheat alarm   |
|                                   | Safety handrails and pedals  |
|                                   | Rotary alarm lamp  |
| Safety and security configuration | Anti-skid plate/anti-skid paste  |
|                                   | Hydraulic safety locking lever   |
|                                   | Emergency escape hammer  |
|                                   | Left and right rearview mirrors  |
|                                   | Falling object protective structure (FOPS)                                       |
|                                   | Emergency stop switch of engine  |
| Chassis system and shield         | Bottom frame traction ring   |
|                                   | Protective device kit: chassis bottom sealing plate, walking motor sealing plate |
|                                   | Extended chassis   |
| Working decive                    | Boom6.67m  |
|                                   | Battery (2×650CCA)   |
| Electrical system                 | 70A Alternator   |
|                                   | 9KW start motor  |
|                                   | Travel alarm   |
|                                   | 24V Cigar lighter  |
|                                   | 5V USB interface   |
|                                   | 24V Power interface  |
| Lamp                              | Boom working lamp at left and right side   |
|                                   | Working lamp installed on the right side of storage box                          |
|                                   | Lamp inside the cab  |
|                                   | Front working lamp installed on the top of cab                                   |
| Counterweight                     | 9.2t Conuterweight   |
| Technology                        | XEICS intelligent system   |

|                    |                               |
|--------------------|-------------------------------|
| Technology         | Data link socket              |
| Lubrication system | Arm concentration lubrication |

### Optional Equipment

|                                   | Name of equipment  | XE500DK |
|-----------------------------------|--|---------|
| Engine                            | Oil-water separator with heater (24V)                            |         |
|                                   | Oil and water quick discharge device                             |         |
|                                   | arm concentration  |         |
|                                   | Fuel refueling pump 50L/min                                      |         |
|                                   | Fast fill fuel system  |         |
| Hydraulic system                  | Air prefilter  |         |
|                                   | Auxiliary hydraulic valve  |         |
|                                   | Hydraulic buffer valve   |         |
|                                   | Hydraulic pipeline:quartering hammer                             |         |
|                                   | Hydraulic pipeline:cylinder and thumb pliers                     |         |
|                                   | Hydraulic pipeline:Explosion-proof valve line and cylinder       |         |
|                                   | Hydraulic pipeline:quick connector                               |         |
|                                   | Hydraulic pipeline:hydraulic shear                               |         |
|                                   | Hydraulic pipeline:hydraulic vibrating tamper and high frequency |         |
|                                   | braker   |         |
|                                   | Hydraulic pipeline:hydraulic grip                                |         |
| Hydraulic system                  | Operating modes switch   |         |
|                                   | Hydraulic oil ISO VG 32 ,68                                      |         |
| Cab and interior trim             | Heated air suspension seat with cushion                          |         |
|                                   | Onboard oxygen device  |         |
|                                   | Fire extinguisher  |         |
| Safety and security configuration | Explosion-proof valve for boom and arm pipeline                  |         |



|  |   |
|--|---|
|  | 700mm (28 ") three-rib track plate            |
|  | 800 mm (31 ") three-rib track plate           |
| Safety and security configuration          | Track rubber block                            |
|  | Counterweight rearview mirror                 |
|  | Rear view monitor camera                      |
|  | 600 mm (24 ") three-rib track shoe            |
|  | Boom 7.06m                                    |
|  | Arm 3.38m                                     |
| Working device                             | 2.3m <sup>3</sup> Rock bucket                 |
|  | 2.5m <sup>3</sup> Strengthened bucket         |
|  | Ripper  |
|  | Quick connector                               |
|  | Quartering hammer                             |
|  | Hydraulic thumb pliers                        |
|  | Scarifier                                     |
|  | vibrating tamper                              |
|  | Hydraulic shear                               |
|  | Grip  |
|  | High frequency braker                         |
|  | Clam shell bucket                             |
|  | Plum-blossom shape grab bucket                |
|  | Sreen-type bucket                             |
|  | Arm2.9m                                       |
| Bucket 2.5m <sup>3</sup> strengthen bucket |   |
| Electrical system                          | 12V Cigar lighter                             |
|  | Camera  |
|  | Rear working lamp installed on the top of cab |

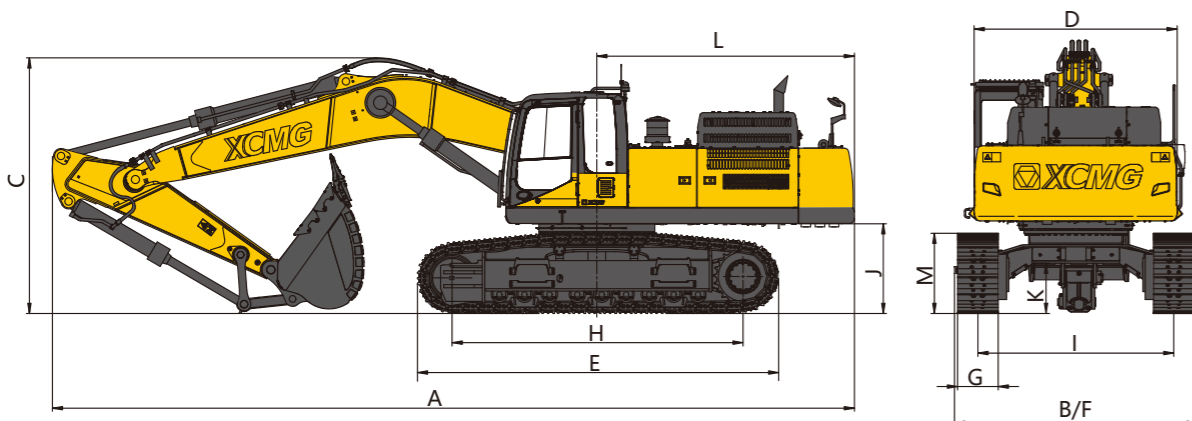
### Main Specifications

| Item             | unit                       | Main specifications |           |
|------------------|----------------------------|---------------------|-----------|
| Model            | /                          | XE500DK             |           |
| Operating weight | Kg                         | 48100               |           |
| Bucket capacity  | m <sup>3</sup>             | 2.3-3.1             |           |
| Engine           | Model                      | /                   | QSM11     |
|                  | Direct injection           | /                   | √         |
|                  | Four strokes               | /                   | √         |
|                  | Water cooling              | /                   | √         |
|                  | Turbo-charging             | /                   | √         |
|                  | Air-to-air intercooler     | /                   | √         |
|                  | No.of cylinders            | /                   | 6         |
|                  | Rated power                | kw/rpm              | 280/2000  |
|                  | Maximum torque/speed       | N.m/rpm             | 1898/1300 |
|                  | Displacement               | L                   | 11        |
|                  | Travel speed(H/L)          | km/h                | 5.4/3.2   |
| Main Performance | Swing speed                | r/min               | 9.2       |
|                  | Gradeability               | °                   | 35        |
|                  | Ground pressure            | kPa                 | 85        |
|                  | Bucket digging force       | kN                  | 301       |
|                  | Arm digging force          | kN                  | 248       |
|                  | Maximum tractive force     | kN                  | 338       |
|                  | Main pump                  | /                   | 2         |
| Hydraulic System | Rated flow of main pump    | L/min               | 2×360     |
|                  | Main safety valve pressure | MPa                 | 34.3/37   |
|                  | Travel system pressure     | MPa                 | 34.3      |
|                  | Swing system pressure      | MPa                 | 31        |
|                  | Pilot system pressure      | MPa                 | 3.9       |

|              | Item                    | Unit           | Parameters                              |
|--------------|-------------------------|----------------|---|
| Oil Capacity | Fuel tank capacity      | L              | 725                                     |
|              | Hydraulic tank capacity | L              | 430                                     |
|              | Engine oil capacity     | L              | 38                                      |
| Standard     | Length of boom          | mm             | 6670                                    |
|              | Length of arm           | mm             | 2900                                    |
|              | Bucket capacity         | m <sup>3</sup> | 2.5                                     |
| Optional     | Length of boom          | mm             | 7060                                    |
|              | Length of arm           | mm             | 3380                                    |
|              | Bucket capacity         | m <sup>3</sup> | 2.3(Rock bucket) 2.5(Strengthen bucket) |

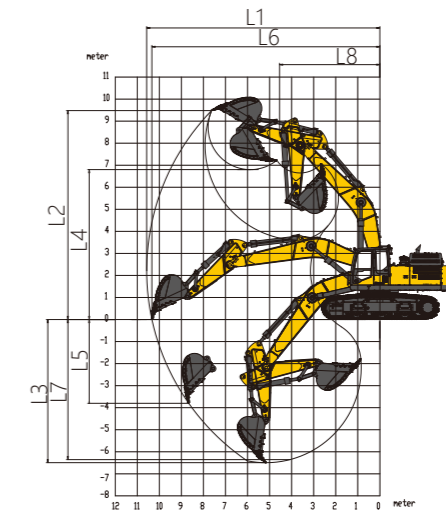
### Dimensions

|                 | Item                        | Unit | Parameters |
|-----------------|-----------------------------|------|------------|
| Appearance size | A Overall length            | mm   | 11805      |
|                 | B Overall width             | mm   | 3582       |
|                 | C Overall height            | mm   | 3890       |
|                 | D Width of platform         | mm   | 3095       |
|                 | E Track length              | mm   | 5353       |
|                 | F Overall width of chassis  | mm   | 3582       |
|                 | G Track shoe width          | mm   | 600        |
|                 | H Wheel base of crawler     | mm   | 4292       |
|                 | I Track gauge               | mm   | 2750       |
|                 | J Counterweight clearance   | mm   | 1324       |
|                 | K Minimum ground clearance  | mm   | 519        |
|                 | L Minimum tail swing radius | mm   | 3800       |
|                 | M Track height              | mm   | 1198       |



### Working Range

|               | Item  | Unit | Parameters |
|---------------|---|------|------------|
| Working scope | A Max. digging height                             | mm   | 9855       |
|               | B Max. dumping height                             | mm   | 6890       |
|               | C Max. digging depth                              | mm   | 7000       |
|               | D Maximum depth cut for 2240mm(8 ft) level bottom | mm   | 6900       |
|               | E Maximum vertical wall digging depth             | mm   | 4500       |
|               | F Max. digging radius                             | mm   | 10855      |
|               | G Min. swing radius                               | mm   | 4580       |



### Lifting Capacity

| Lifting point height (m) | Rated lift capacity – Straight ahead (back) (kg) |        |        |        |        | Lifting capacity at maximum radius | Rated lift capacity – over-side (kg) |        |        |       |      | Lifting capacity at maximum radius |
|--------------------------|--|--------|--------|--------|--------|------------------------------------|--------------------------------------|--------|--------|-------|------|------------------------------------|
|                          | Lifting point radius (m)                         |        |        |        |        |                                    | Lifting point radius (m)             |        |        |       |      |                                    |
|                          | 3  | 4.5    | 6      | 7.5    | 9      |                                    | 3                                    | 4.5    | 6      | 7.5   | 9    |                                    |
| 7.5                      |  |        |        | *11535 |        | *11160                             |                                      |        |        | 9997  |      | 9356                               |
| 6                        |  |        | *13709 | *12162 |        | *11066                             |                                      |        | *13709 | 9873  |      | 7734                               |
| 4.5                      |  | *19930 | *15229 | *12827 |        | *11365                             |                                      | *19930 | 13200  | 9551  |      | 6863                               |
| 3                        |  |        | *16828 | *13581 | *11639 | 10899                              |                                      |        | 12485  | 9167  | 7081 | 6417                               |
| 1.5                      |  |        | *17867 | *14129 | 11582  | 10752                              |                                      |        | 11947  | 8856  | 6919 | 6287                               |
| Ground                   |  |        | *23564 | *17894 | *14139 | 11076                              |                                      |        | 17355  | 11594 | 8641 | 6434                               |
| -1.5                     | *17060   | *21632 | *16935 | *13355 |        | *11404                             | *17060                               | 17428  | 11533  | 8575  |      | 6944                               |
| -3                       | *21777   | *18419 | *14732 | *11188 |        | *11023                             | *21777                               | 17642  | 11666  | 8727  |      | 8085                               |
| -4.5                     |  | *10327 | *10327 |        |        | *9709                              |                                      | *13347 | *10327 |       |      | *9709                              |

Capacities marked with an asterisk(\*) are limited by hydraulic capacities.