



XE4000

HYDRAULIC EXCAVATOR

 16-22m³
384t
Diesel Backhoe

 21-23m³
388t Diesel Face
Shovel

 21-23m³
380t Electric Face
Shovel



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SOLID TO SUCCEED

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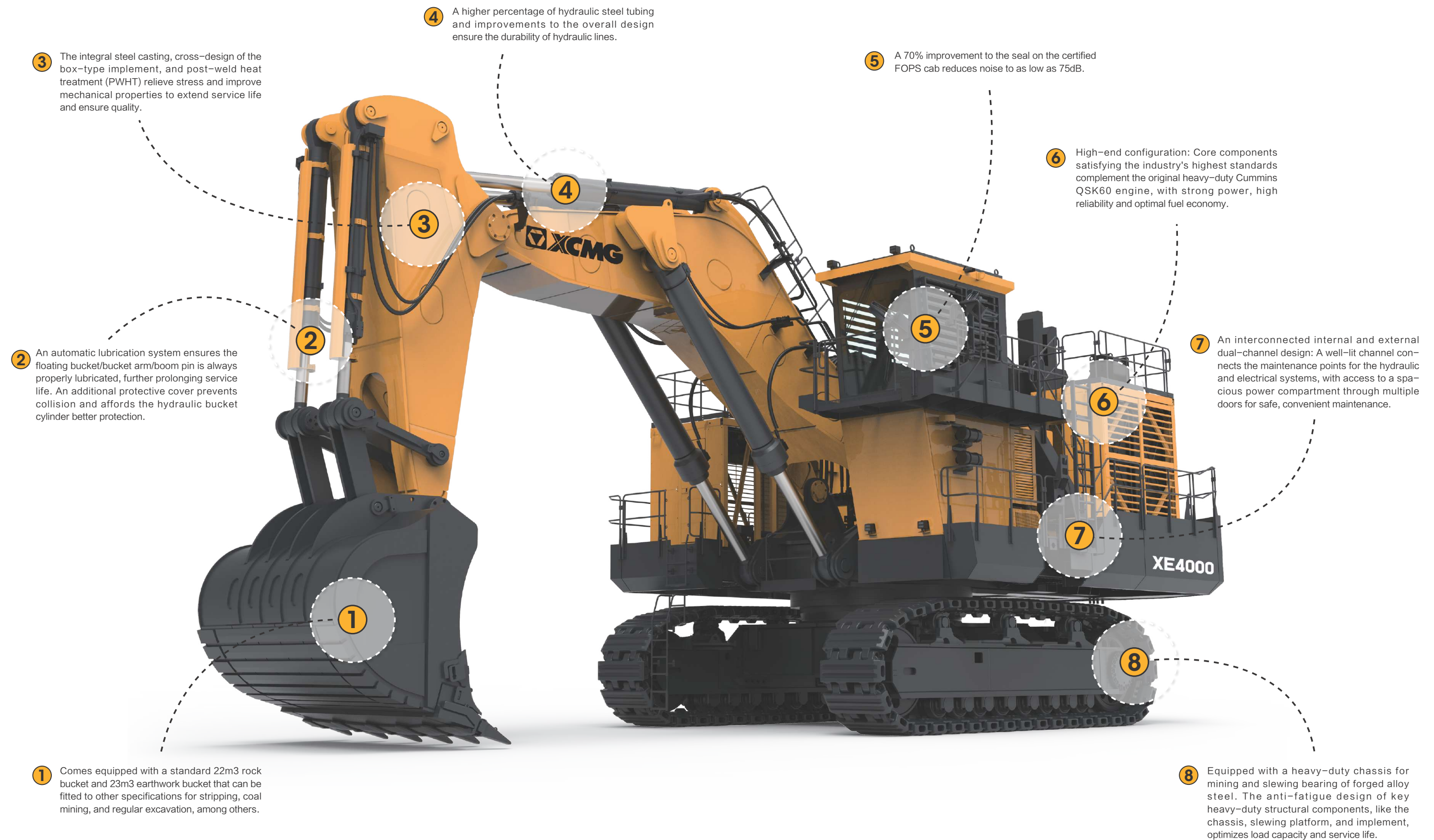


XCMG OFFICIAL WEBSITE



XCMG SERVICE ACCOUNT

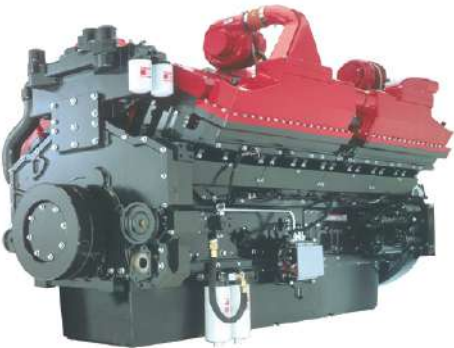
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01

Powerful Drive System

Efficient power output



The fully electronic Cummins QSK60 is a classic high-powered engine known for reliability, power, fuel economy, a long service life, and an extended overhaul period, among others, and meets US Tier 2 and EU Stage II non-road mobile machinery emission standards.

Description	Unit	XE4000
Engine model	/	Cummins QSK60-C2000
Control mode	/	Fully electronic direct injection
Rated power/speed	kW/rpm	1491/1800
Maximum torque	N.m/rpm	8906/1500
Displacement	L	60
Engine type	/	V-16 four-stroke
Bore and stroke	mm	159 × 190

1

Modular Common-Rail System (MCRS)

The high-pressure fuel injection system provides excellent fuel atomization, enabling more complete combustion for more efficient power output, better fuel economy, and less noise.

2

Robust data support

Continuously updating the digital solutions available to customers. Used for remote engine monitoring, prediction, and alert notifications to enhance productivity, reduce costs, and optimize maintenance and services.

3

Reduced maintenance costs

The Low Temperature Aftercooler System ensures the appropriate intake air temperature and service life of the engine cylinder block. Maintenance costs are reduced by 30% by using a large single-block engine to drive the multi-pump unit.

4

Extremely adaptable

The turbocharger brings a responsiveness, fuel economy, and adaptability to high plateaus essential for mining above 3,500m and at temperatures that can range from -40 to 50° C.

5

Reliable and durable

The multi-stage fuel filtration system is up to 99% effective, removing impurities and moisture and prolonging the service life of your engine. Parallel multi-stage filters can reduce fuel inlet resistance to better satisfy inlet requirements, and with a level alarm and transparent water cup, users are regularly reminded to drain water.

6

Meets tough emissions regulations

The air filter is equipped with a Donaldson SSG heavy filter for mining to prevent dust from entering and make operating in a dusty environment possible.

Name of accessories	Accessory manufacturer	Characteristics
Fuel system	Cummins U.S.A	Professional global manufacturer providing the most reliable engine fuel systems
Air filtration system	Donaldson U.S.A	Global air filtration expert Greatly extending engine life with an exhaust ejection system that effectively prolongs the maintenance cycle of air filters, resulting in low maintenance costs
Coupling	CENTA Germany	The preferred choice for diesel engine couplings in the world's most reliable power output assembly

Electric power options available:

60Hz and 50Hz motors can be provided to suit the power grid in the mining area. Save energy, are better for the environment, and reduce operating costs.

02

Hydraulic System

Precision control;
efficient coordination

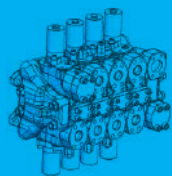
1

The cylinder's reinforced spherical plain bearings and hydraulic buffer effectively prevent leaks and scuffing failures and significantly increase lifespan.



2

Main valve: A large diameter (Φ50) KYS 1000 wafer butterfly valve, low loss of pressure, system pressure as low as 29.4MPa, and a long service life.



3



Main pump: New Kawasaki K7V280 with 30% more torque, 10% more efficient overall.

4

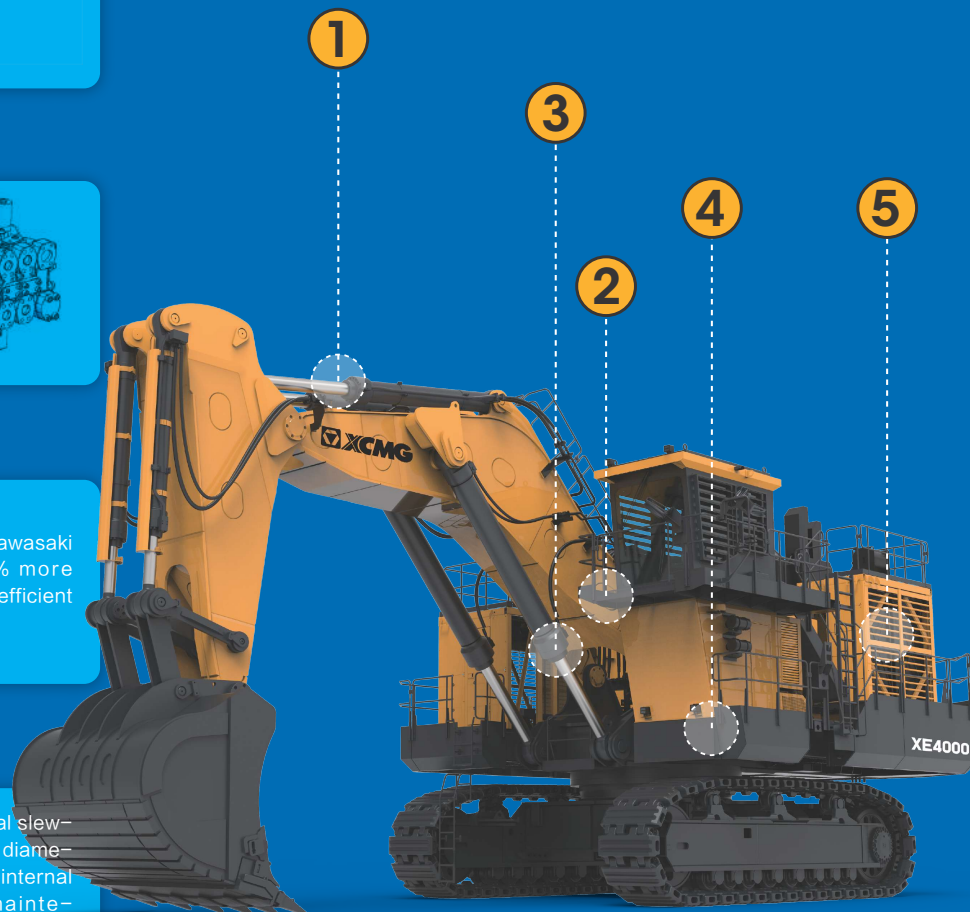


An upgraded central slewing joint, increased diameter (Φ50), and low internal pressure loss; maintenance-free self-lubricating hydraulic system.

5

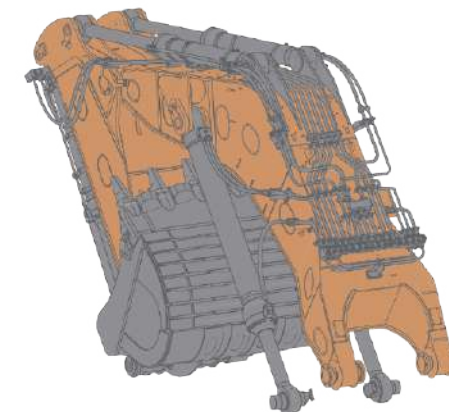


The temperature is adjusted automatically on the imported radiator for completely independent cooling.

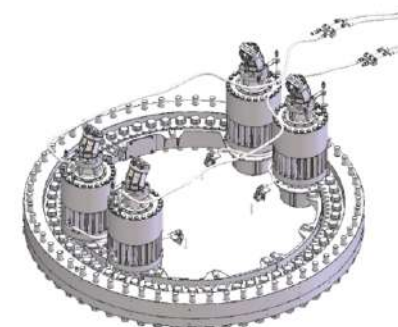


① Optimized tubing

The hydraulic tubing in the XE4000 has been designed to the highest Australian standards and features enhanced protection and tube clamps for secure and robust installation. Fewer hydraulic pumps and simplified tubing make for a stabler hydraulic system, longer component service life, and lower maintenance costs. Lower system pressure makes for a stabler hydraulic system, longer component service life, and lower maintenance costs.



Maximum pump flow L/min. (number of pumps)	
Main pump	4,392(4)
Slewing pump	None
Pressure setting MPa (kg/cm ²)	
Working circuit	29.4(300)
Traveling circuit	29.4(300)
Slewing circuit	29.4(300)



② Balanced slewing unit design

Two slewing units are installed directly opposite each other to balance distribution force and ensure excellent digging performance and productivity in extreme conditions.

The large diameter three-row roller slewing bearings of a famous international brand provide a higher axial and radial load capacity and longer service life.

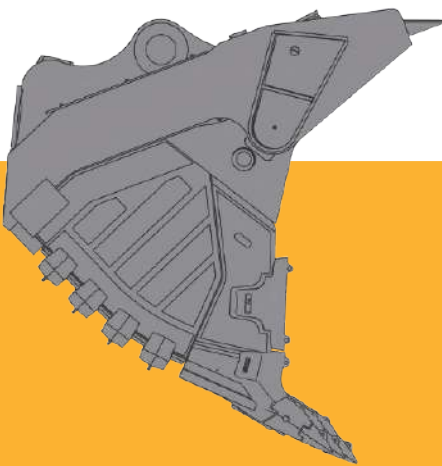
③ The unit's outstanding electronic positive flow system is coupled with XCMG's independently developed control system for the optimal engine and hydraulic system match. The resulting composite is smooth and energy efficient.



03 Carrying High Expectations

High productivity and economy

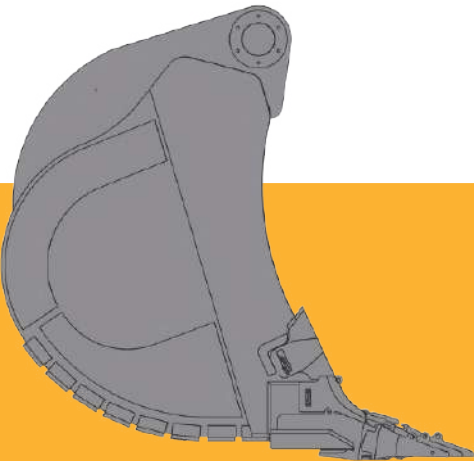
XCMG knows that total efficiency is only possible when every detail is taken into account so every implement can work together perfectly.



Face shovel
(Loader)

The loader is equipped with an automatic leveling mechanism to hold the bucket steady at the angle you need. The design increases loading capacity and tilt angle for more efficient operation.

Bucket capacity	21-23m3
Maximum digging force	1340/1190kN
Slewing speed	3.2 r/min
Traveling speed	2.3/1.6 km/h



Backhoe

The application of finite element analysis to the design of the backhoe has resulted in an evenly distributed load and a longer service life. Floating pins, bushings, and an automatic lubrication system all contribute to a longer service life and higher productivity.

Bucket capacity	16-22m3
Maximum digging force	961/1057kN
Slewing speed	3.2 r/min
Traveling speed	2.3/1.6 km/h

Bucket teeth: Alloy wear-resistant teeth from a leading global manufacturer are part of an ingenious bucket teeth system designed for optimal penetration and easy maintenance and replacement. Critical parts are welded with high-strength wear-resistant plates for greater bucket strength, excellent wear resistance, and more efficient loading and unloading.

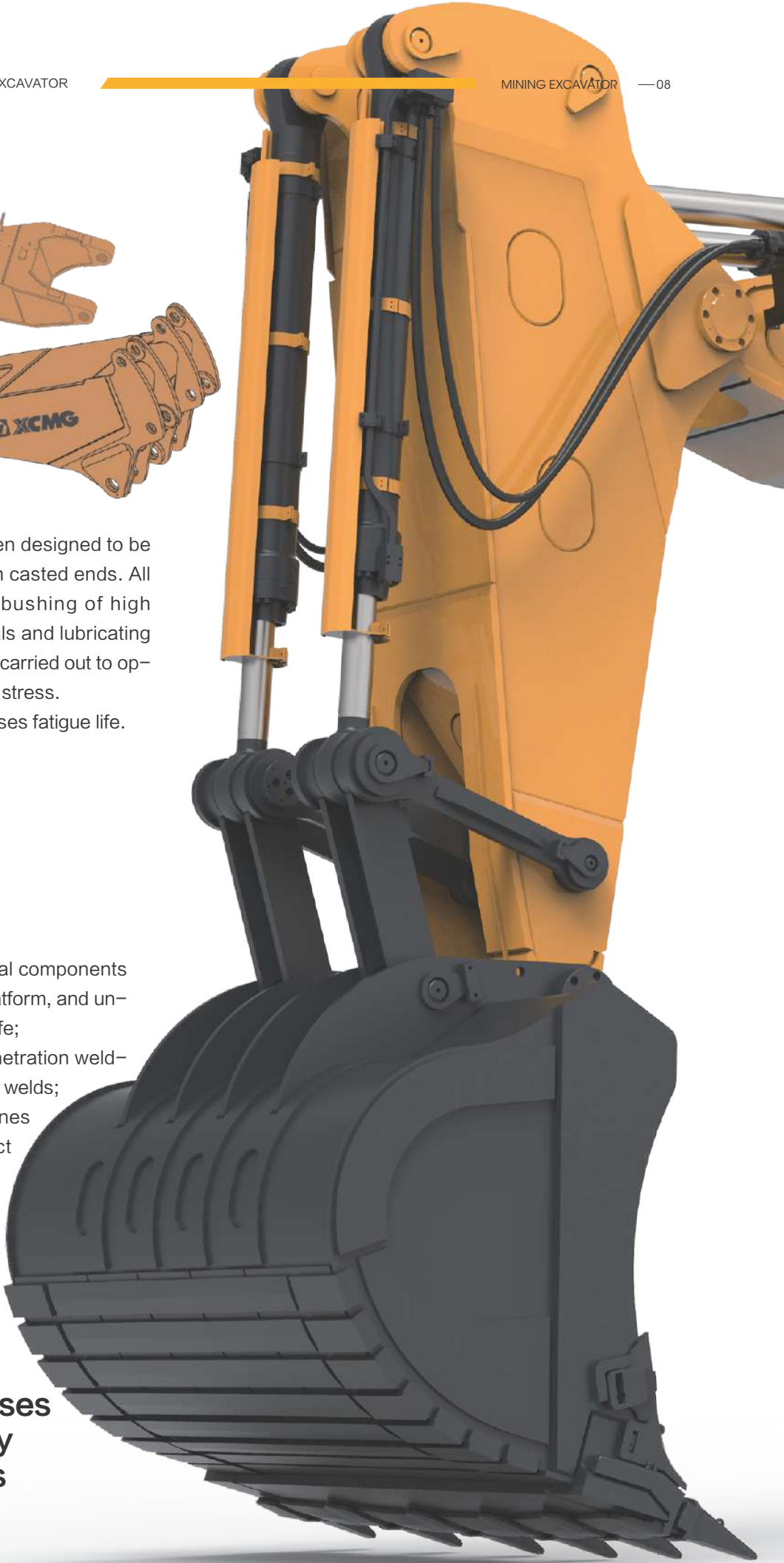


Boom and Bucket Arm

The large main box structure has been designed to be lightweight and torsion-resistant with casted ends. All rotating shafts are provided with bushing of high load-bearing wear-resistant materials and lubricating oil grooves. Finite element analysis is carried out to optimize local structures bearing excess stress. Reducing stress values greatly increases fatigue life.

PWHT on key and important structural components like the boom, bucket arm, slewing platform, and undercarriage greatly improves fatigue life; The world's best all-digital deep-penetration welding machines ensure the quality of the welds; The industry's top heavy-duty machines equip XCMG to achieve the perfect clamp with its large structural components for the greatest possible accuracy and efficiency. Reducing stress values greatly increases fatigue life.

Global leadership in manufacturing processes
Long service life of key structural components

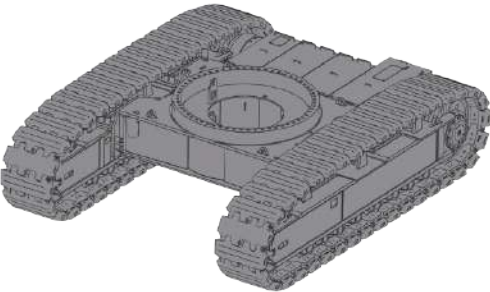


04

Heavy-Duty Chassis

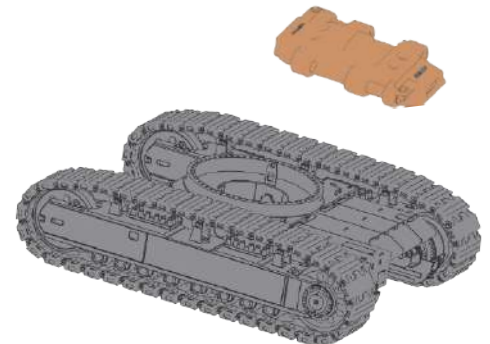
High load capacity and economy

Machine mass	384000kg
Standard bucket capacity	22m3
Ground pressure/track shoe width	200kPa/1270mm
Track length	8700mm
Track width	6770mm
System pressure	29.4Mpa



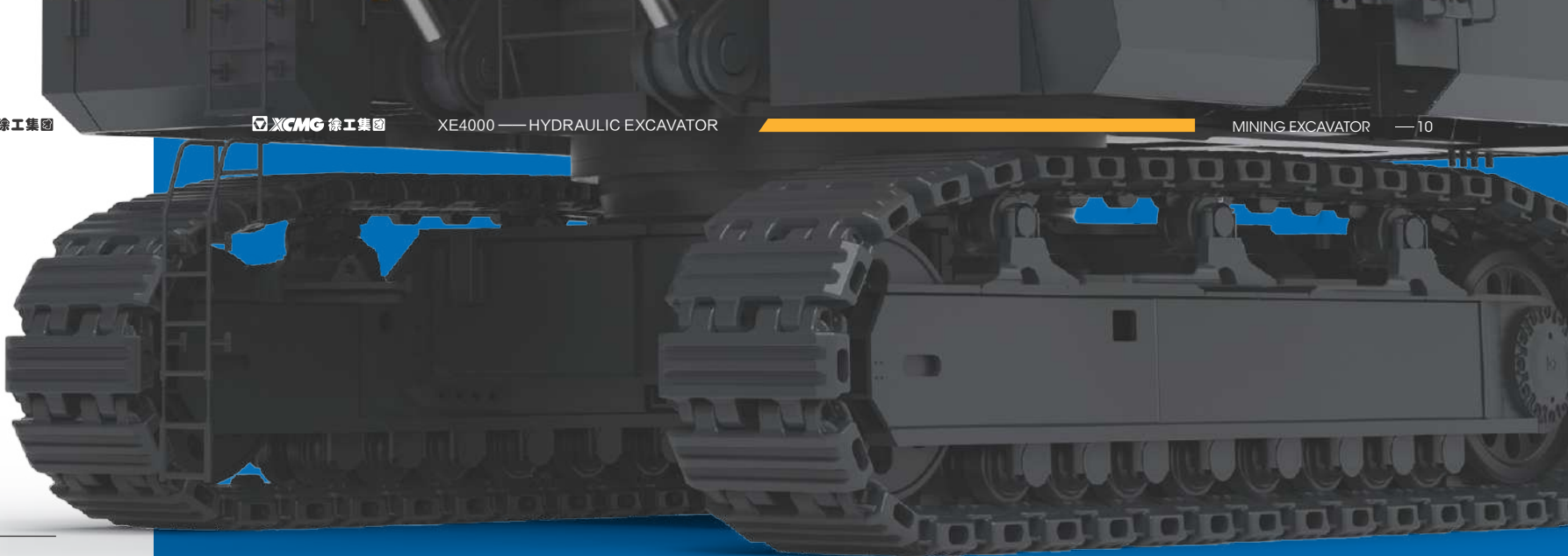
1 Robust combined chassis

Connecting parts are all made of high-strength steel capable of bearing the impact of bigger loads. Wider track shoes disperse and decrease ground pressure across a wider undercarriage for better lateral stability. The optimal gear layout ensures operations proceed without a hitch, and the operator can excavate in comfort.



2 Strong, durable track components

The integral track shoe, raceway, and automatic guider lead the roller and prevent lateral deviation. Stress from contact with the raceway surface is low and no rail clamp is needed, making it reliable and affordable; the streamlined internal gear oil chamber ensures ample lubrication inside the gear system. No oiling maintenance is required, for greater reliability and a longer service life.



3 Rigid box design

Computer-aided analysis has been utilized to determine the most efficient frame design and ensure the XE4000 meets the requirements of all mining operations.



4 Slewing bearing seat

XCMG's unique slewing bearing seat utilizes specially designed forged steel components to provide optimal stress distribution, reducing the risk of failure in critical areas of high stress. This ensures a stronger frame and greater durability.



5 Carrier roller

The left and right longitudinal beams are designed with three carrier rollers supported by the base on both sides. The rollers hold up the track shoes, reducing wear from accumulated materials for a more reliable chassis system.



6 Oiling roller and idler

Oil-filled idler and upper and lower rollers eliminate the need for daily lubrication, helping to reduce maintenance costs.



7 Full protection bottom sealing plate (optional)

The newly designed heavy-duty bottom sealing plate is now even stronger and provides comprehensive protection for the accumulator and hydraulic tubing within the H frame undercarriage. The hydraulics in the undercarriage are now even more reliable.

05

Telescopic
Operation

Adapts flexibly to a variety of constructions



Flow reduced when cylinder fully retracted



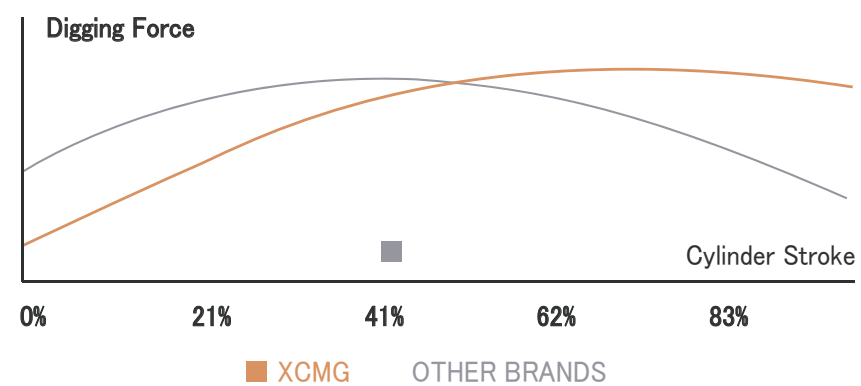
Flow reduced when cylinder fully extended

① Electronic buffer technology

An angle sensor detects the position of the working cylinder, and the controller can choose to reduce the flow at the end of the cylinder stroke, significantly minimizing impact, enhancing operator comfort, and extending the life of structural components.

② Flat pushing function

The dual bucket arm cylinder design allows the operator to push the bucket with a single action of the bucket arm cylinder, significantly reducing the complexity of the operation and effort required.



Increasing the work of the bucket arm cylinder powers the XE4000 with digging force where it is needed most.



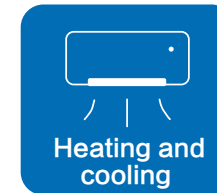
Models adapted are available to meet a diversity of working conditions such as low temperatures, tropical rainforests, and plateaus. It has earned high praise from customers for reliability, life-cycle cost, operating experience, and performance. The product design emphasizes flexibility, integration, and modularity.

06

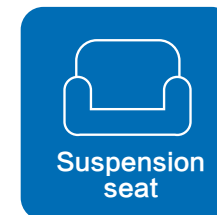
Control
Performance

Safe and comfortable
Innovative and intelligent

XCMG strikes the perfect balance between safety and easy maneuverability to ensure every driver optimal handling.



The standard air conditioning system in every sealed pressurized cab ensures the uniform airflow every driver needs to work in comfort throughout the day.



Designed specifically for the mining industry, the vibration-reducing air suspension seat provides control over ventilation, heating, rotation, angle, soft and hard damping, and lumbar support. Reducing vibration and absorbing shock reduces driver fatigue to positively lowers the resulting risks. What's more, all seats are equipped to accommodate training and 24-hour shifts.



The machine features an electronically controlled positive flow system and high-precision, rapid-response joystick. The joystick control has been designed for easy operation and allows the driver to maintain the wrist and arm in a neutral position for greater comfort.



The light screen can be easily extended and retracted for flexible adjustment. The retractable front and side screens protect the driver from UV glare, and both sides are equipped with sunshades to reduce heat in the cab without affecting the driver's vision for a superior operating environment.



The extra-large cab provides full visibility, positive pressure, and is the ideal safe working environment. The newly designed FOPS certified cab prevents injury from falling objects and comes with a safety exit in the rear window. The panoramic front window is made of tempered, double-layer laminated glass for excellent visibility and safety, and the sides are fitted with F-green tinted tempered glass that block ultraviolet rays. The forward-tilting elevated cab provides an expansive downward view, and the air pressurization system maintains pressure between 50–200Pa to effectively keep dust out. The outstanding seal keeps noise inside the cabin below 75db. The multi-point shock absorbers effectively isolate external vibrations.

07

Safety First

Drive forward in safety and confidence

① Safety in operations and maintenance

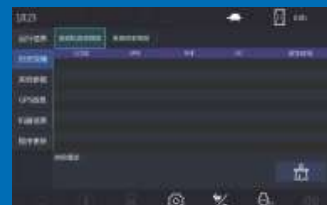
A standard four-point video monitoring system reduces blind spots; an optional panoramic view is also available to further eliminate blind spots and increase safety.



Standard bipolar isolation and engine start switches ensure safety, and a standard quick battery charging connector makes battery charging more convenient and faster.

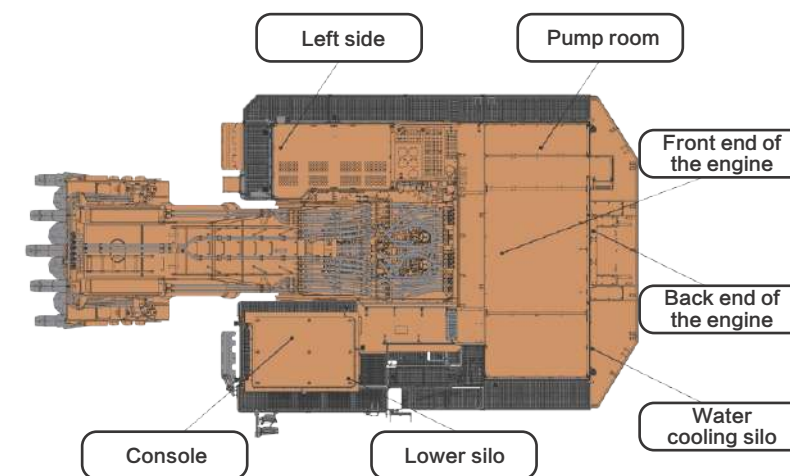


The machine is equipped with a 12.1-inch color touchscreen LCD for quick viewing and setting of operation parameters, and comprehensive machine system monitoring ensures safer equipment operation and maintenance. Fault codes are fully decipherable and can be quickly located for quicker troubleshooting.



② Emergency switch protection

The vehicle is equipped with 7 emergency stop switches in the cab and maintenance point for increased safety in case of an emergency. In cases where maintenance is needed, the emergency stop switches can be used to prevent the engine from starting during maintenance. When the emergency stop switches are used, the controller intelligently activates the exhaust solenoid valve of the hydraulic oil tank, releasing residual pressure for increased safety.



When the boarding ladder and centralized filling panel are not locked, the vehicle will remain inactive to avoid incorrect operation and ensure increased safety during maintenance.

The status of the boarding ladder and the filling panel when locked can be displayed on the instrument interface for greater monitoring convenience.



Anti-rollover technology (optional)

A tilt sensor enhances operational safety by identifying the position of the vehicle, issuing rollover warnings, and restricting action.



Anti-fatigue driving technology (optional)

Technologies include facial and fingerprint recognition, anti-fatigue driving, identity and behavior recognition, and fingerprint startup.

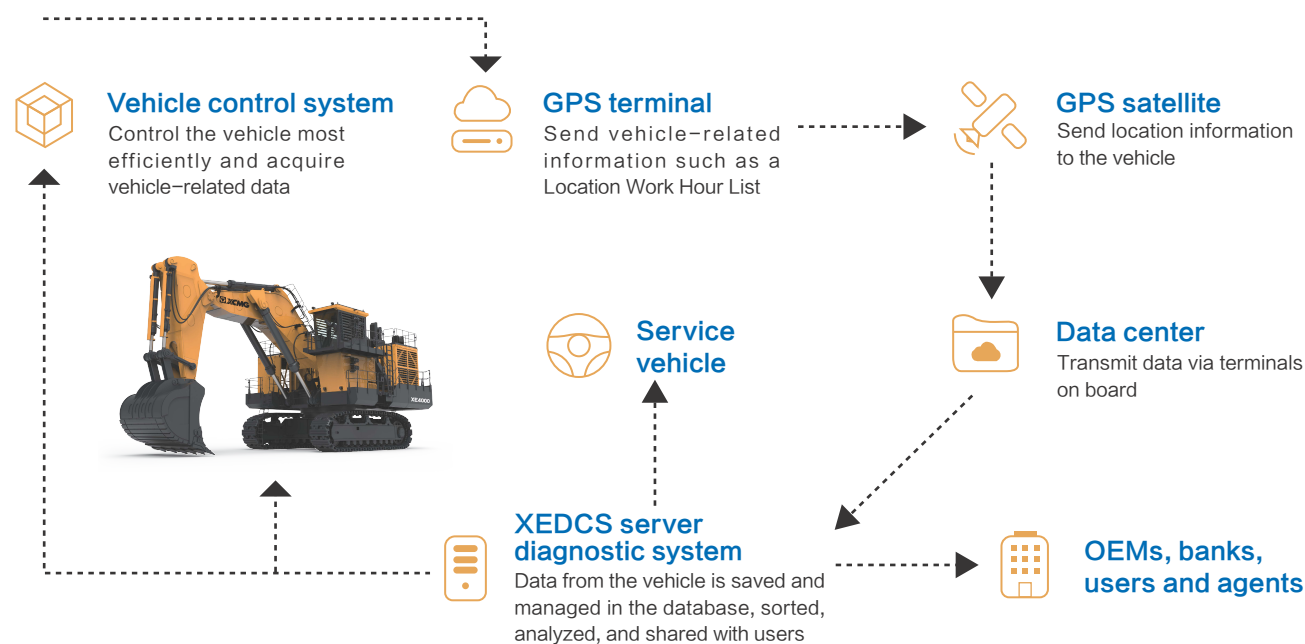


08

Intelligent System

Comprehensive protection of operational equipment

● New-generation intelligent excavation control system



The brand new, independently developed XEICS intelligent control system provides more accurate power matching between the power and hydraulic systems, making work more efficient and saving energy. The intelligent XCMG GPS cloud control system is connected to the company's CRM, 400, and DMS systems and integrates functions for GPS positioning, remote management, and remote diagnosis. The system can store the excavator's geographic location information, upload on-site working parameters and alarm information data, and facilitate access and remote management and remote diagnosis and control.



On-board diagnostic (OBD) system

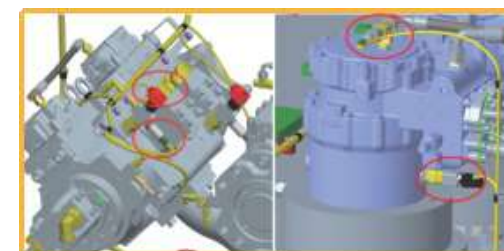
The machine is equipped with an M2IS-OBD system with independent intellectual property rights. The system features real-time monitoring and high-speed storage of multi-channel data, online diagnosis and offline data analysis, equipment behavior analysis, and historical event playback and is an important source of data for troubleshooting.



Intelligent monitoring

Hydraulic tension and buffer technology with pressure feedback

The large-capacity accumulator can absorb impact from the undercarriage during traveling and is equipped with built-in pressure feedback detection. When the tension limit is exceeded, traveling automatically stops to avoid excessive pulling of the track, effectively prolonging service life.



The oil contamination and pressure sensors installed at the pump and motor drain ports facilitate preventive maintenance of hydraulic components, minimizing the risk of damage to the pump and motor due to the ingress of impurities and reducing costly downtime. A high-pressure filter at the main pump outlet effectively prevents impurities from damaging the main pump and contaminating the entire hydraulic system.

09 Maintenance

Standard interconnected internal and external dual-channel access

Interconnecting internal and external dual-channel maintenance access

Maintain the radiator and engine compartments and pump chamber quickly and safely.

① Convenient slewing reducer gear oil inspection

The oil dipstick for the slewing reducer faces the walking board, making oil inspection more convenient.



② Standard exhaust ejection system

The exhaust airflow expels air filter dust through the exhaust pipe, eliminating the need to clean it separately and effectively extending the air filter replacement cycle.



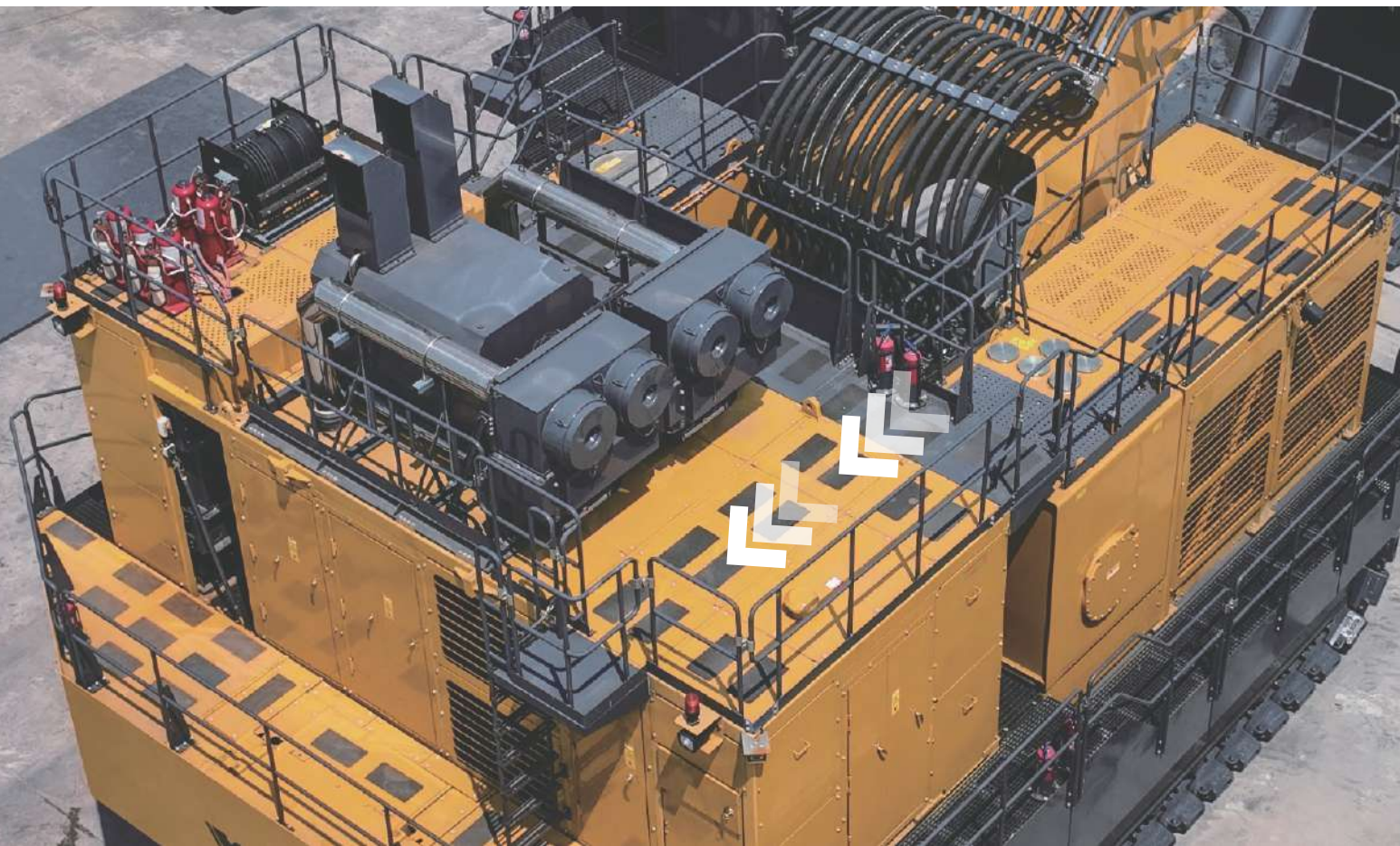
③ Copper radiator

Heat-dissipating copper pipe can be removed and replaced individually, allowing for quick maintenance and replacement and reducing costs.



④ Centralized ground-level oil and fluid filling system

The quick-connect design of the centralized ground-level filling system at the filling interface allows for rapid access from external filling machines for more efficient maintenance, less downtime, and easier labor.



Filler at the implement



Full protection for lubricating point of slewing bearing

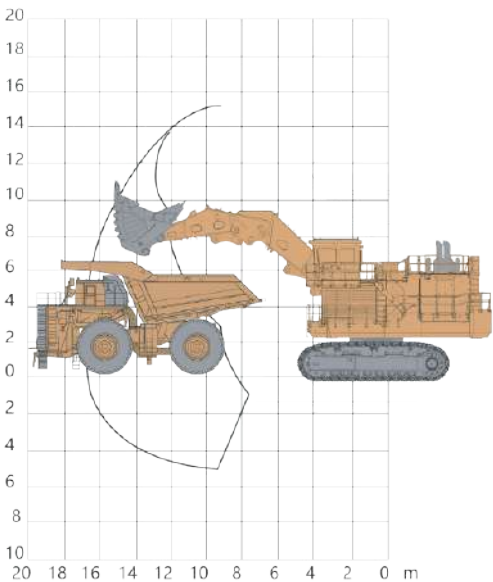


Grease filling pump barrel

Automatic + semi-automatic lubrication system

The lubrication system is the work of an internationally renowned provider and features two operating modes: automatic and semi-automatic. Automatic lubrication of the implement and slewing bearing lubrication points significantly reduces labor, while semi-automatic allows for quick emergency refills of any malfunctioning lubrication points. Together, they greatly enhance operational efficiency. The reliable lubrication system also allows for adjustments to lubrication pressure and intervals via the instrument interface, ensuring it meets the requirements of different working conditions while providing convenience and efficiency in operations.

Matching operation of XE4000 face shovel and XDE200/XDE260

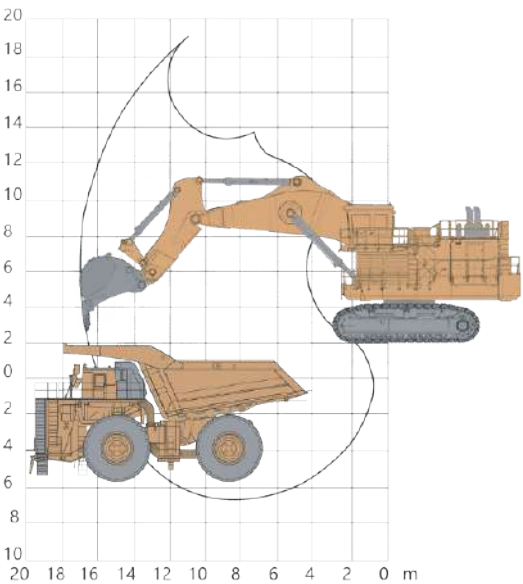


Advantages:
The mining truck and excavator operate on the same platform. The XE4000 face shovel has a large single excavation range of up to 12–16 meters, reducing construction costs for access roads and eliminating the need for platform construction during operations, saving time and effort and allowing for direct excavation and loading.

	XDE130	XDE200	XDE260
Rated load (t)	120	180	230
Rated power of engine (kW)	970	1510	1864
Dump body capacity (m³)	73	110	148
Number of buckets matching XE4000	3-4	4-5	6-7

Type (bucket)	Heavy-duty rock	Heavy-duty rock	Standard rock
Heaped loading capacity 2:1	18m³	21m³	23m³
Maximum material density (loose)	2.2t/m³	1.8t/m³	1.6t/m³

Matching operation of XE4000 backhoe and XDE200/XDE260

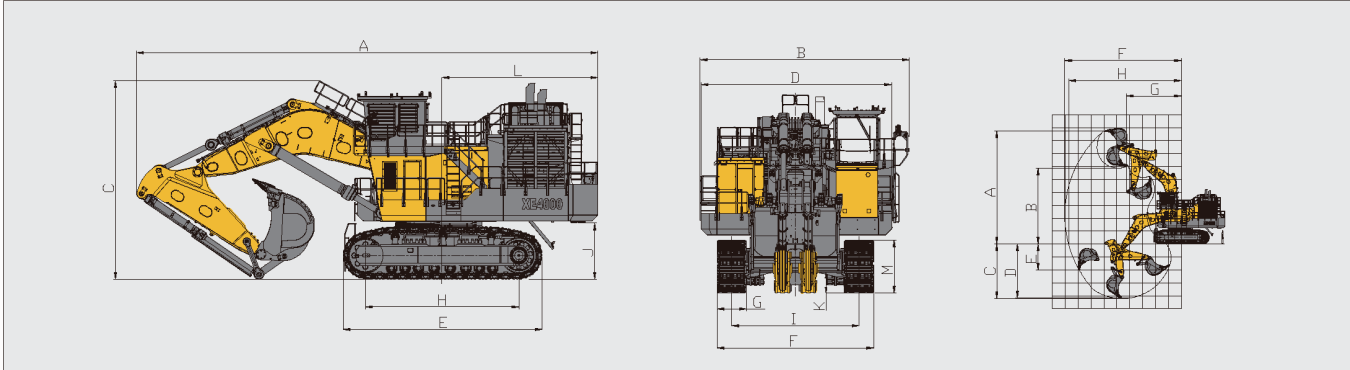


Advantages:
Positioning the backhoe excavator on a high platform and the mining truck on a low platform ensures efficiency, flexibility, and gradeability. Materials above and below the ground can be excavated and screened with precision, and materials from blasting operations can be mined without the need for bulldozers to assist in leveling the working face.

	XDE130	XDE200	XDE260
Rated load (t)	120	180	230
Rated power of engine (kW)	970	1510	1864
Dump body capacity (m³)	73	110	148
Number of buckets matching XE4000	3-4	4-5	6-7

Type (bucket)	Heavy-duty rock	Heavy-duty rock	Standard rock
Heaped loading capacity 1:1	18m³	20m³	22m³
Maximum material density (loose)	2.2t/m³	2.0t/m³	1.8t/m³

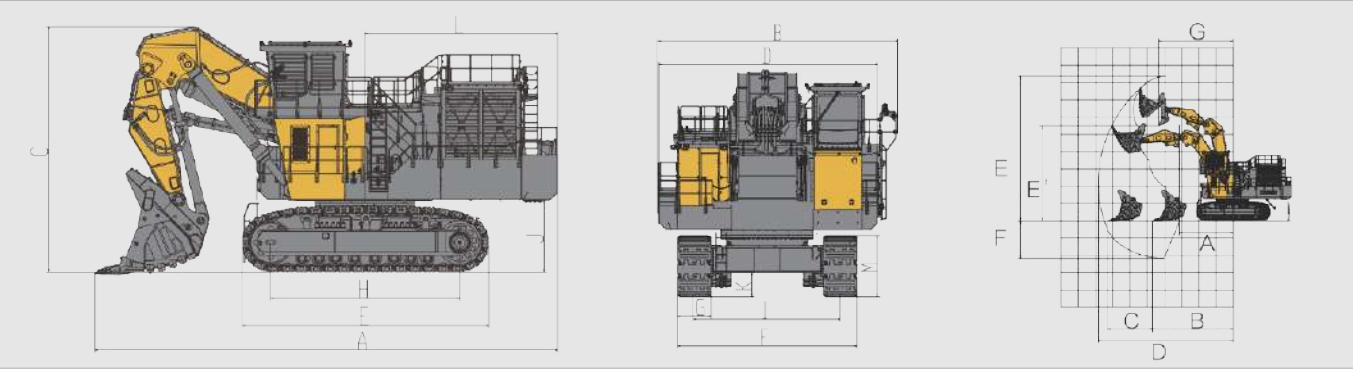




Main parameters of XE4000 backhoe

Model	Unit	Parameters
Operating weight	kg	384000
Bucket capacity	m³	20-22
Engine		
Engine model	/	QSK60
Direct injection	/	√
4-stroke	/	√
Water cooling	/	√
Turbocharging	/	√
Low-temperature intercooler	/	√
Number of cylinders	/	16
Rated output power/speed	kW/rpm	1491/1800
Maximum torque/speed	N.m	8906/1500
Displacement	L	60
Main performance		
Traveling speed (high/low)	km/h	2.3/1.6
Slewing speed	r/min	3.2
Gradeability	°	30
Ground pressure	kPa	200
Bucket digging force	kN	1057
Bucket arm digging force	kN	961
Hydraulic system		
Main pump	/	8Plunger pumps
Rated flow of main pump	L/min	8x549
Pressure of main safety valve	MPa	29.4
Traveling system pressure	MPa	29.4
Slewing system pressure	MPa	29.4
Pilot system pressure	MPa	4.4
Oil capacity		
Fuel tank capacity	L	7450
Hydraulic tank capacity	L	2050
Engine oil capacity	L	267

Overall dimensions		
A Overall length	mm	20000
B Overall width	mm	9070
C Overall height	mm	8590
D Width of slewing platform	mm	8260
E Track length	mm	8700
F Overall width of chassis	mm	6770
G Standard track shoe width	mm	1270
H Track wheelbase	mm	6660
I Track gauge	mm	5500
J Ground clearance of counterweight	mm	2430
K Minimum ground clearance	mm	910
L Tail slewing radius	mm	7175
M Track height	mm	2305
Operating range		
A Maximum digging height	mm	17470
B Maximum unloading height	mm	11740
C Maximum digging depth	mm	8430
D Digging depth in 8-foot horizontal plane	mm	8355
E Maximum vertical digging depth	mm	4015
F Maximum digging radius	mm	18050
G Minimum slewing radius	mm	8480
Standard		
Boom length	mm	9600
Bucket arm length	mm	4500
Bucket capacity	m³	22
Optional		
Cold engine start		
Automatic fire extinguishing system		



Main parameters of XE4000 face shovel

Model	Unit	Parameters
Operating weight	kg	388000
Bucket capacity	m³	21-23
Boom length	mm	7100
Bucket arm length	mm	4700

Engine		
Engine model	/	Cummins QSK60
Direct injection	/	√
4-stroke	/	√
Water cooling	/	√
Turbocharging	/	√
LTA	/	√
Number of cylinders	/	16
Rated power of engine	kW/rpm	1491/1800
Maximum torque/speed	N.m	8906/1500
Displacement	L	60

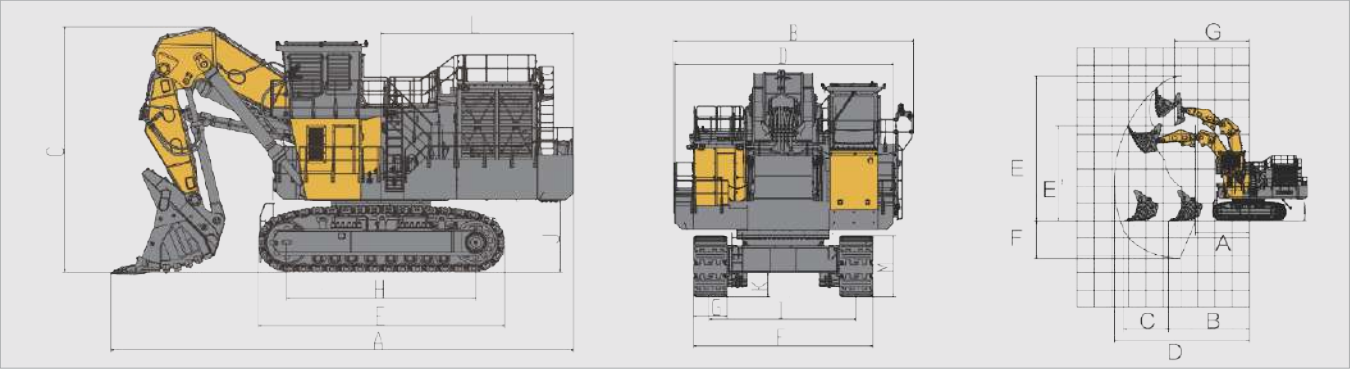
Main performance		
Traveling speed	km/h	2.3/1.6
Slewing speed	r/min	3.2
Gradeability	°	30
Ground pressure	kPa	202
Bucket digging force	kN	1190
Bucket arm digging force	kN	1340
Maximum traction force	kN	1801

Hydraulic system		
Main pump	/	8Plunger pumps
Rated flow of main pump	L/min	8x549
Pressure of main safety valve	MPa	29.4
Traveling system pressure	MPa	29.4
Slewing system pressure	MPa	29.4
Pilot system pressure	MPa	4.4

Oil capacity		
Hydraulic tank capacity	L	7450
Hydraulic tank capacity	L	2050
Engine oil capacity	L	267

Overall dimensions		
A Overall length	mm	16185
B Overall width	mm	9070
C Overall height	mm	9220
D Width of slewing platform	mm	8260
E Track length	mm	8700
F Overall width of chassis	mm	6770
G Track width	mm	1270
H Track wheelbase	mm	6660
I Track gauge	mm	5500
J Ground clearance of counterweight	mm	2430
K Minimum ground clearance	mm	910
L Minimum tail slewing radius	mm	7175
M Track height	mm	2305

Operating range		
A Minimum digging distance	mm	6190
B Minimum horizontal digging distance	mm	9340
C Horizontal digging distance	mm	5080
D Maximum digging radius	mm	15670
E Maximum digging height	mm	16760
E' Maximum unloading height	mm	11000
F Maximum digging depth	mm	4360
G Working radius at max. unloading height	mm	8660
H Maximum opening width of bucket	mm	2300



Main parameters of XE4000E face shovel

Model	Unit	Parameters
Operating weight	kg	380000
Bucket capacity	m³	21-23

Motor		
Model	/	XCMG-M450-1200B/A
Rated output power/speed	kW/rpm	1200/1786(60HZ)-1486(50HZ)
Rated current	A	134
Operating voltage	V	6000

Main performance		
Traveling speed (high/low)	km/h	2.3/1.6
Slewing speed	r/min	3.2
Gradeability	°	30
Ground pressure	kPa	198
Bucket digging force	kN	1190
Bucket arm digging force	kN	1340
Maximum traction force	kN	1801

Hydraulic system		
Main pump	/	8Plunger pumps
Rated flow of main pump	L/min	8x549
Pressure of main safety valve	MPa	29.4
Traveling system pressure	MPa	29.4
Slewing system pressure	MPa	29.4
Pilot system pressure	MPa	4.4

Oil capacity		
Hydraulic tank capacity	L	2050

Overall dimensions		
A Total length	mm	16185
B Total width	mm	9070
C Overall height	mm	9220
D Width of slewing platform	mm	8260
E Track length	mm	8700
F Overall width of chassis	mm	6770
G Standard track shoe width	mm	1270
H Track wheelbase	mm	6660
I Track gauge	mm	5500
J Ground clearance of counterweight	mm	2430
K Minimum ground clearance	mm	910
L Tail slewing radius	mm	7175
M Track height	mm	2305

Operating range		
A Minimum digging distance	mm	6190
B Minimum horizontal digging distance	mm	9340
C Horizontal digging distance	mm	5080
D Maximum digging radius	mm	15670
E Maximum digging height	mm	16760
E' Maximum unloading height	mm	11000
F Maximum digging depth	mm	4360
G Working radius at max. unloading height	mm	8660

Optional		
Boom length	mm	7100
Bucket arm length	mm	4700
Bucket capacity	m³	21(1800kg/m³)

EXPLANATION:

1. The graphics and information in this brochure reflect the technical characteristics and configuration standards of some models at that time. The existing information and data are derived from the standard use test. The above data and information are for reference only. Please refer to the real object.

2. This brochure is for reference only and has no contractual effect. For more information, please contact the local XCMG mining machine dealer.

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