

电动王者 为绿色而生

**ELECTRIC KING
MADE FOR GREEN**



XE1350E 液压挖掘机 XE1350E HYDRAULIC EXCAVATOR

徐州徐工矿业机械有限公司
XUZHOU XCMG MINING MACHINERY CO LTD

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2023年6月 发行

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It will be released in June 2023

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官网二维码



微信二维码



视频号二维码



抖音二维码

 铲斗容量：7m³–8m³
Bucket Capacity: 7 m³ ~ 8 m³

 操作重量：123000kg
Operating Weight: 123,000 kg

 额定功率：560kW
Electric motor power: 560 kW

XE1350E

XE1350E是徐工新研发的一款120吨级矿山型电动挖掘机产品，以节能环保、高效回报为设计理念，具有“挖掘力大、作业效率高、可靠性好、安全环保、维保成本低”等特点。

XE1350E, as a 120 t electric mining excavator developed by XCMG under the design concept of energy saving, environmental protection, high efficiency and return, has features such as “powerful excavation force, high operation efficiency, good reliability, safe and environmentally friendly, and low maintenance cost”.



一、超强挖力，更“E”强化产能 I. SUPER POWERFUL EXCAVATION FORCE, “E” STRENGTHENED PRODUCTION CAPACITY

1. 动力强劲：

1. POWERFUL FORCE:

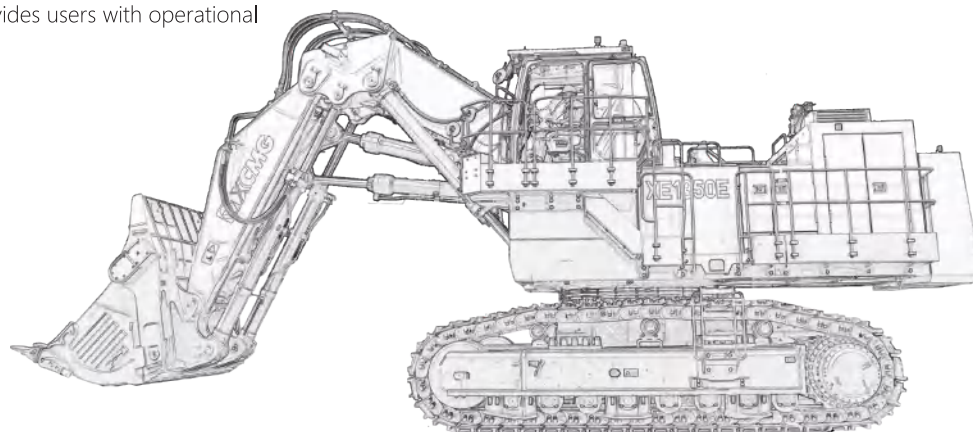
(1) 徐工自主研发的背包式三相鼠笼式异步高压电机，低能耗，高效率，低噪音，零排放，适应工程机械作业环境要求。

(1) Backpack squirrel-cage three-phase asynchronous motor from a first-class brand, which realizes low energy consumption, high efficiency, low noise, zero emission and adaption to working environments of construction machinery.



(2) 采用自主研发的高可靠性高压控制系统，专用微机保护系统具有过载、欠相、反相、欠压、过流保护功能和防雷保护装置；高压柜新增空气加压防尘装置，电机具备三相绕组与轴承温度实时检测功能，保护高压电气核心部件，插拔式高压电缆耦合器为用户提供操作便利。

The high-voltage control system is self-developed and highly reliable. The special microcomputer protection system has overload, under-phase, reverse-phase, under-voltage and over-current protection functions and lightning protection devices; the high-voltage cabinet has a new air-pressure and dust-proof device, the motor has a three-phase winding and bearing temperature real-time detection function to protect the high-voltage electrical core components, and the plug-in high-voltage cable coupler provides users with operational convenience.



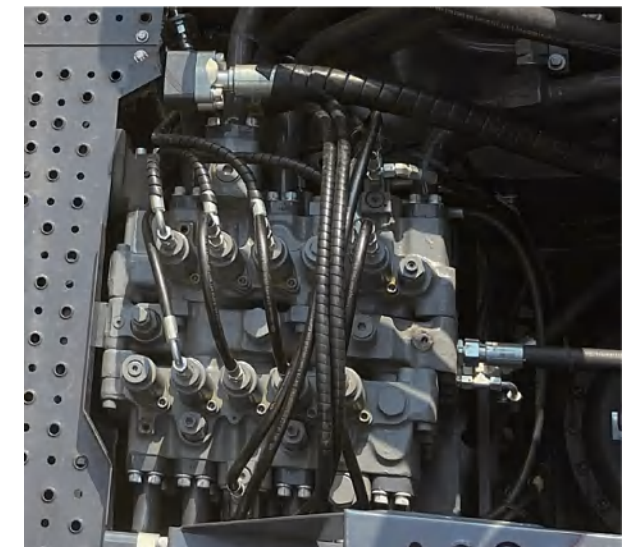
2. 可靠高效：

2. RELIABLE AND EFFICIENT:

(1) 采用液控正流量系统，成熟可靠。关键液压零部件全部选用国际知名品牌成熟可靠的零部件，性能先进，可靠性高。使用开式回转系统，技术稳定，不进行回转时，回转泵的流量可用于工作装置，最大流量达到 $3 \times 531 \text{ L/min}$ ，挖掘速度快。

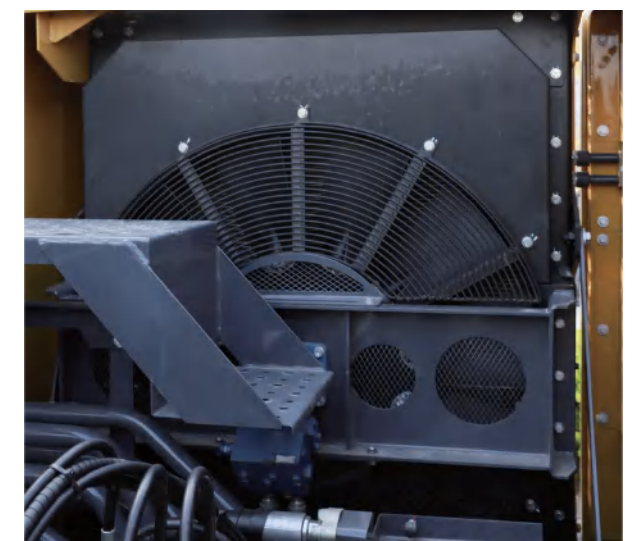


(1) Mature and reliable hydraulic controlled positive flow system. Mature and reliable key hydraulic components from internationally renowned brands, which have advanced performance and high reliability. Open swing system, stable technology, the flow of the swing pump can be used by the equipment during non-swing period, max flow: $3 \times 531 \text{ L/min}$, fast excavation.



(2) 液压系统采用独立散热，风扇转速根据液压油温自动调整转速，降低油耗。分动箱齿轮油进行循环散热，避免高温变质，保证良好的润滑效果。

(2) Separate heat dissipation for the hydraulic system, and the speed of the fan is automatically adjusted according to the hydraulic oil temperature to reduce oil consumption. Gear oil of the transfer case is circulated for heat dissipation to avoid deterioration under high temperature and to assure good lubrication effect.



3. 精准挖掘：

3. ACCURATE EXCAVATION:

(1) 系统根据工况负载，自动控制液压系统的流量和功率，使系统更加高效、节能。

(1) The system automatically controls the flow and power of the hydraulic system according to the working load, making the system more efficient and energy saving.



(2) 实时对系统进行监测，出现故障报警及时通过云平台推送给客户和服务人员，及时处理，减少故障损失。

The system is monitored in real time and fault alarms are promptly pushed through the cloud platform to customers and service personnel for timely handling to reduce fault losses.



4. 铲斗匹配最优：

4. OPTIMAL BUCKET MATCHING:

(1) 优化铲斗斗型，关键切屑刃板采用千兆帕级高强耐磨板，铲斗使用寿命更长，可以轻松切割更加坚硬的材料，更适应石、煤、金属等矿山重载工况。

(1) Optimized bucket shape, key cutting lips are made of 1,000 MPa high-strength wear-resisting plates, making service life of the bucket longer; easily cut hard materials and more suitable for heavy load operations in stone, coal, and metal mines.

(2) 搭载徐工90吨-100吨级矿车，挖运动作一气呵成，实现集成作业，装载效率倍增。

(2) Cooperate with XCMG 90~100 t mining trucks, excavation and transportation at the same time, realize integrated operation and double loading efficiency.



二、系统升级，更“E”智能高效 II. UPGRADED SYSTEM, MORE “E” INTELLIGENT AND EFFICIENT

1. 智慧管控：

1. INTELLIGENT CONTROL:

(1) 使用了徐工统一平台的“智能+服务”电气系统设计模式，对电动机、泵阀控制、监控设置、空调控制和独立散热模块控制实现高度的集成化。

(1) The design mode of “intelligence + service” electrical system of XCMG unified platform, and a high integration of engine, pump valve control, monitoring settings, air conditioning control, and separate heat dissipation module control.



(2) 在车辆可靠性要求最高的线束和传感器制造中，徐工大型挖掘机全部采用了“尼龙编织”工艺和快速拆装卡具，真正做到用不毁！



(2) For wiring harness and sensor manufacturing with the highest vehicle reliability requirements, the “nylon weaving” process and fast disassembly/assembly fixtures are adopted for all XCMG large excavators, and the target of “providing durable machines” is achieved!

2. 精控成本：

2. PRECISE COST CONTROL:

(1) 电动机保养项目少，相比发动机，不用加柴油、更换空气滤芯、机油、柴油滤芯等，节省了很多保养成本的同时提高了设备出勤时间。在高原环境，功率没有衰减。

(1) The electric motor has fewer maintenance items, compared to the engine, there is no need to add diesel, change air filter, oil, diesel filter, etc., saving a lot of maintenance costs while increasing equipment attendance time. No power degradation in the highland environment.

(2) 电动机完全没有大修，寿命长，维护成本极低。电费相比较油费也更加便宜，单位产量下成本更低。

(2) The motor does not need major repair, and it has a longer service life at extremely low maintenance cost. Compared to oil, electricity is cheaper, and the cost per unit of production is therefore lower.



3. 提升舒适性：
3. IMPROVED COMFORT:

(1) 驾驶室采用全新设计的正压驾驶室，有效隔离灰尘，大幅降低驾驶室内噪音，空调效果更好，驾驶室空间更大，操作更宽敞。

(1) Newly designed positive pressure cab, which effectively blocks dust, significantly reduces noise, offers better air conditioning effect and bigger space for operation.



(2) 采用新款自动悬浮座椅，座垫和靠背更加符合人机工程学，力学分布更均匀，支撑性更好，久坐不容易疲劳。

(2) New automatic suspension seat, seat cushion and backrest better accord with ergonomic requests, realizing more uniform mechanical distribution, better support and no fatigue after long time sitting.



(3) 座椅带电动加热功能，寒冷天气同样很舒适，提升操机手的舒适性，作业效率大大提升。

(3) Electric heating function of the seat, comfortable in cold weather, improve comfort for operator, and increase operation efficiency.



三、强化构件，更“E”可靠耐用 III. REINFORCED COMPONENTS, MORE “E” RELIABLE AND DURABLE

1. 结构强化：

1. STRUCTURAL REINFORCEMENT:

(1) 采用加强型工作装置，动臂、斗杆和铲斗采用优质高强板材，结构经过优化分析。采用先进的焊接工艺和焊接设备，保证焊接的强度。工作装置关键连接部位采用锻件或者铸件结构，减少焊接的应力集中。

(1) Reinforced equipment; boom, arm and bucket are made of high-quality and high-strength plates, with analyzed and optimized structures. Advanced welding process and equipment, ensure the strength of welding. Forging or casting structures are used at key connections of the equipment to reduce stress concentration during welding.



(2) 标配重载岩石型铲斗，采用高强和耐磨板材，铲斗表面和轮廓周围使用耐磨护板，提高铲斗使用寿命。

(2) Heavy-duty rock bucket is made of high-strength and wear-resisting plates, wear-resisting panels are used on surface and around contour of the bucket to prolong service life.

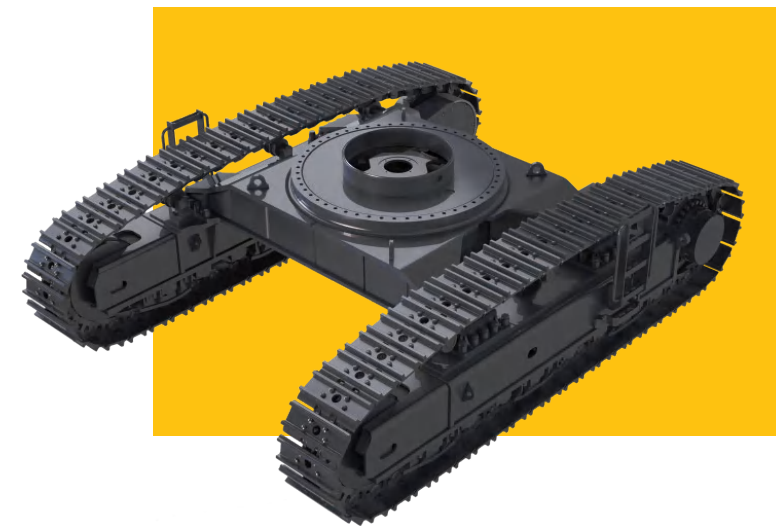


2. 提升承载力：

2. IMPROVED BEARING CAPACITY:

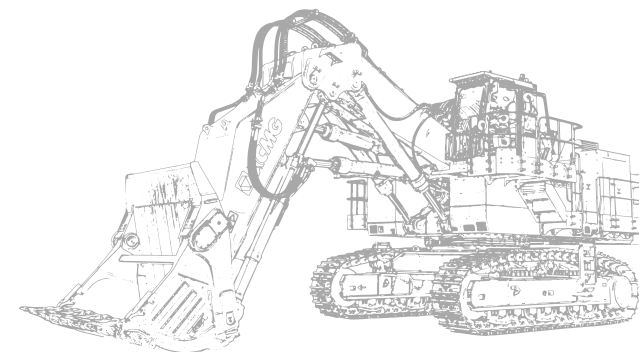
(1) 采用加强型底盘结构，回转支承座圈进行整体锻造，T形截面结构，避免受力最大位置在焊缝处，受力形式更好。

(1) Reinforced undercarriage structure, solidly forged swing bearing seat and T-shaped cross-section structure to avoid the max stress position at welding seams and to assure better stress form.



(2) 采用三排滚柱式回转支承，相比其他厂家使用的单排球式回转支承承载能力更强，回转更加平稳，使用寿命更长。

(2) Three rows of roller swing bearings, compared to single row of ball swing bearings adopted by other manufacturers, it has higher loading capacity, smoother swing and longer service life.



四、人性设计，更“E”安全环保 IV. USER-FRIENDLY DESIGN, MORE “E” SAFE AND ENVIRONMENTALLY FRIENDLY

1. 加强型驾驶室：

1. REINFORCED CAB:



(1) 采用加强型驾驶室，能够满足FOPS防护标准，前窗采用夹胶玻璃，受到意外撞击后，不会完全碎裂，能够更好的保护操作者。另外，驾驶室可选配前上防护网，用于特殊场所的使用。

(1) Reinforced cab, meet FOPS protection standards; front window is made of laminated glass, which will not completely break in case of accidental impact, providing better protection for operator. Front upper guard is optional for special conditions.

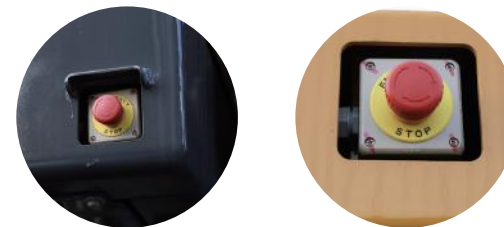
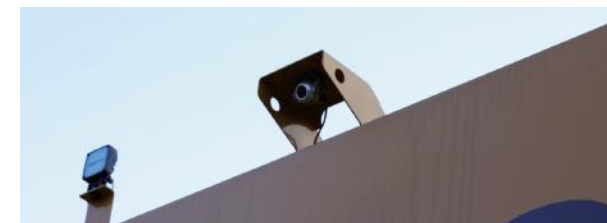


(2) 驾驶室顶部有报闪灯，同时车身安装有蜂鸣器，在车辆行走和回转时，报警灯闪烁，蜂鸣器响亮，提醒周围人员注意安全。

(2) Rotating alarm lamp on top of the cab and buzzer on the excavator, which respectively flashes and sounds when the excavator walks or swings to warn people around it.



(3) 驾驶室内部、机棚框架、右前转台三个位置布置有急停开关，能够在紧急情况下停止电动机。配重顶部和电控柜前方安装有摄像头，可以改善司机的视野，提高操作安全性。



(3) Emergency stop switches are arranged in three positions inside the cab, on the shed frame and on the right front turntable to be able to stop the motor in case of emergency. Cameras are installed on top of the counterweight and in front of the electric control cabinet to improve the driver's visibility and increase operational safety.



2. 低碳排放：

2. LOW CARBON EMISSION:

电动机无污染，环保，完全无污染物排放。

The motor is pollution-free and environmentally friendly, and it does not emit pollutants.



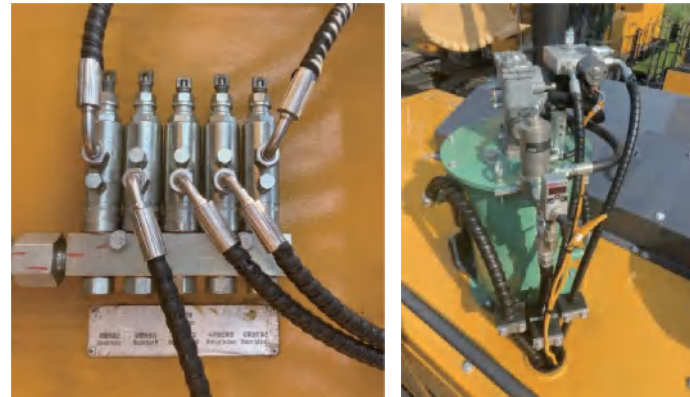
五、优化布局，更“E”维修保养 V. OPTIMIZED LAYOUT, MORE “E” MAINTENANCE

1. 维修通道：

1. MAINTENANCE ACCESS:

(1) 整机采用人性化设计，油品加注、液位检查、油品排放、滤芯更换都十分方便，保养省事省力。

(1) User-friendly design, making maintenance easy, such as oil filling, liquid level inspection, oil discharge and filter replacement.



(2) 车辆有左右和中部走台，方便上下车和车辆保养。左右走台有高围栏，保护人员安全。

(2) Walkways on the left, right and middle, making access and maintenance convenient. High guardrails on left and right walkways to protect personnel safety.



2. 自动润滑系统：

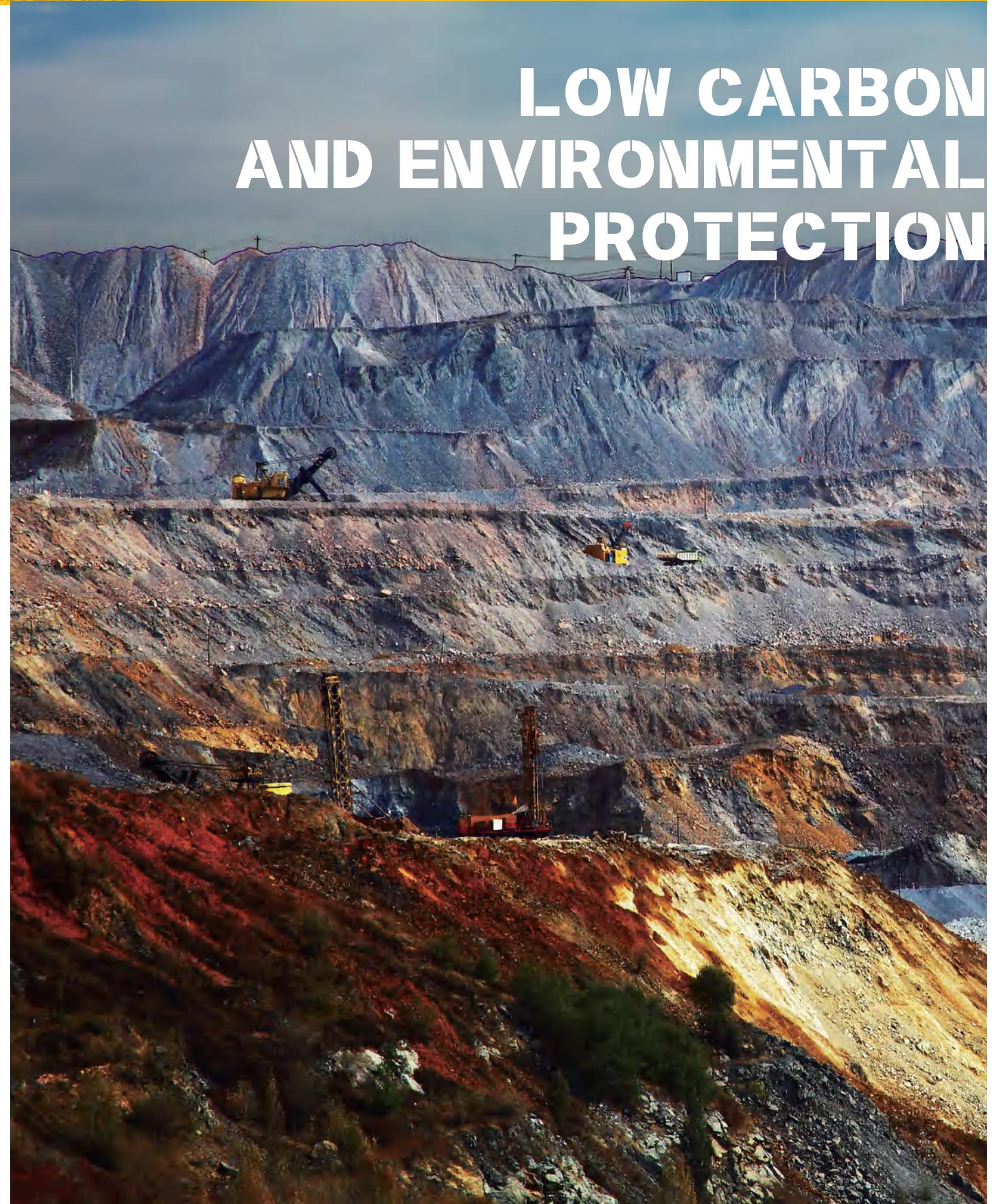
2. AUTOMATIC LUBRICATION SYSTEM:

采用30L大容量自动润滑系统，能够实现工作装置主要销轴和回转支承的润滑，减少了司机加润滑脂的劳动强度，节省了保养时间，有更多的时间进行作业。

30 L high capacity automatic lubrication system, lubricate main pins and swing bearings of the equipment, reduce times of lubricating grease filling, save maintenance time and leave more time for operation.



LOW CARBON AND ENVIRONMENTAL PROTECTION



说明:

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MAIN

PARAMETER

主要参数

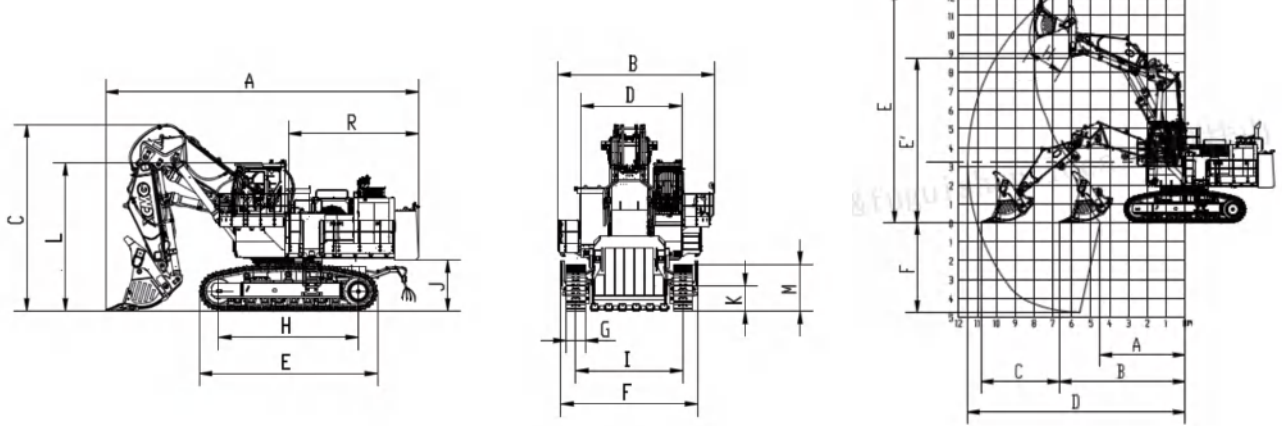
型号 Model	单位 UMO	参数 Parameters
操作重量Operating Weight	Kg	123000
斗容 Bucket Capacity	m ³	7-8
动臂长度Length of boom	mm	5200
斗杆长度Length of arm	mm	4000

电动机 Motor		
电动机型号 Powertrain	/	XCMG-M400
额定功率 Output Power	kw	560
额定转速 Rated Speed	rpm	1482
额定电压 Rated Voltage	V	600
额定频率 Rated Frequency	Hz	50

主要性能 Main performance		
行走速度 Travel speed	km/h	3.5/2.4
回转速度 Rotating speed	r/min	5.2
爬坡能力 Gradeability	°	35
接地比压 Ground pressure	kPa	154
铲斗挖掘力 Bucket digging force	kN	710
斗杆挖掘力 Arm crowd force	kN	610
最大牵引力 Maximum traction	kN	746

液压系统 Hydraulic system		
主泵 Main pump	液压系统	3个柱塞泵
主泵额定流量 Rated flow of main pump	L/min	3x531
主安全阀压力 Pressure of prime valve	Mpa	34.3
行走系统压力 Pressure of travel system	Mpa	34.3
回转系统压力 Pressure of swing system	Mpa	28
先导系统压力 Pressure of pilot system	Mpa	4.1

油类容量 Oil Capacity		
液压油箱容积 Hydraulic tank capacity	L	640



电动机 Motor	标配	选配	无
电动机品牌	徐工		
电动机型号	XCMG-M400		
电压	6000 V		
降压启动系统	√		
空空冷却器	√		
风扇罩	√		
外风扇	√		
加热器	√		

液压系统 Hydraulic system	标配	选配	无
动臂/斗杆流量再生	√		
辅助液压阀	√		
反向回转阻尼阀	√		
自动回转停车制动器	√		
液压缓冲阀	√		
直行液压回路	√		
动臂优先阀	√		
回转逻辑阀	√		
回转防摇摆阀	√		
闭式回转系统			×
液压油 Autran410	√		
液压油 Spirax S4 CX10W /MobiltransHD 10W		○	
仪表压力监控	√		

电气系统 Electrical system	标配	选配	无
蓄电池(2x950CCA)	√		
蓄电池断路开关	√		
行走报警器	√		
24V直流电源接口	√		
12V直流电源接口	√		
5V USB接口	√		

照明灯 Motor	标配	选配	无
左右两侧动臂LED工作灯	√		
左右两侧转台LED工作灯	√		
驾驶室内部照明	√		
驾驶室顶安装的前LED工作灯	√		
驾驶室顶安装的后LED工作灯	√		
驾驶室左侧LED台阶灯	√		
泵室LED检修灯(带独立开关)	√		
配重灯	√		

驾驶室与内饰 Cab and Interior	标配	选配	无
增压驾驶室	√		
增高驾驶室	√		
双层夹胶挡风玻璃和其他钢化窗户	√		
可滑动的车门上窗	√		
遮阳帘	√		
顶部天窗	√		
雨刮器	√		
杯架/文件袋	√		

冷暖储物箱	√		
衣帽钩	√		
可清洗地板垫	√		
完全可调的空气悬浮座椅	√		
可调节座位扶手	√		
安全带(51mm[2"]宽)	√		
自动空调系统	√		
带除霜器的双向出风空调(自动型)(加压功能)	√		
操纵手柄	√		
装有可拆卸手动操纵杆的行驶控制踏板	√		
可显示警告信息、滤清器/液体更换信息和工作小时数的彩色液晶显示屏	√		
驾驶员登入管理系统(人脸识别、密码输入)	√		
高低速换挡	√		
无线电收音机	√		
两个立体声扬声器	√		
灭火器		○	

安全与防护配置 Safety Protection	标配	选配	无
自动灭火系统		○	
落物防护结构(FOPS)	√		
驾驶室前上防护网		○	
驾驶室前下防护网	√		
后视监控摄像头	√		
右侧监控摄像头	√		
360°全景影像系统		○	
行为监控系统		○	

驾驶门锁和各舱室锁	√		
紧急停机开关	√		
后窗紧急出口	√		
动臂、斗杆保持阀	√		
警报喇叭	√		
过热报警	√		
旋转报警灯	√		
安全扶手和踏板	√		
防滑板/防滑贴	√		
液压安全锁定杆	√		
紧急逃生锤	√		
左后视镜	√		
左侧通道及护栏	√		
右侧通道及护栏	√		
中间通道	√		

TECHNICAL

PARAMETER

技术参数

底盘系统与护罩 Chassis\Shield	标配	选配	无
履带护轨器	√		
全长度履带护轨器		○	
保护装置套件:	√		
底盘底部封板、行走马达封板	√		
700mm(24")双筋履带板	√		
900mm(31")双筋履带板		○	
1000 mm(31")双筋履带板		○	
电动爬梯/扶梯			×

工作装置 Working Device	标配	选配	无
7.0m³岩石斗	√		
8.0m³岩石斗		○	

润滑系统 Lubrication System	标配	选配	无
自动润滑系统	√		
集中加注系统			×

控制技术 Control Technology	标配	选配	无
XEICS智能控制系统	√		
蓝牙系统	√		
诊断记录仪	√		
数据链路插座	√		

配重 Counterweight	标配	选配	无
配重	√		