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XCMG FOR YOUR SUCCESS

XC958-EV

Pure Electric (EV) Loader

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产品简介 Product Overview

▼ 纯电动装载机，代表着工程机械的未来，整机零排放，环保的首选产品。
The pure electric loader with zero-emission is the future of engineer machinery and the optimal choice for environmental protection.

▼ XC958-EV纯电动装载机是徐工集团利用国际化研发平台，整合全球技术研发资源，全力打造的具有国际先进水平、完全自主知识产权的全新一代装载机。该款机型清洁环保、动力强劲、坚固可靠、高效节能 、保养便利，为建筑工地、矿山、港口、公路等施工领域提供更加环保、节能、高效的解决方案。
Based on the international research and development platform and integrated with global resources, XC958-EV pure electric loader is the new-generation loader of XCMG designed with international advanced technology and independent intellectual property right, featuring environmental protection, strong power, solidity and reliability, high efficiency, and energy conservation and easy maintenance, which is the environmentally friendly, energy-saving and efficient solution for multiple applications including construction sites, mines, ports, and roads, etc.

▼ 整机的额定功率高达280kW，给整机提供更强的动力，相比较燃油装载机，整机动力性提升超过10%，得益于电机的快速响应性，整机的加速性能提升超过50%。
The rated power is up to 280kW to supply stronger power to the machine, which is improved by more than 10% compared with that of the fuel loaders. The acceleration performance is also improved by more than 50% due to the quick response of the motor.

产品优势 Advantages

▼ 清洁环保：搭载纯电动系统的装载机，零尾气排放，同时噪音更低，比传统装载机低10-20分贝。
Environmental protection: It is configured with a pure electric system with zero-emission and lower noise by 10-20dB than traditional loaders.

▼ 高效节能：较传统装载机传动效率提升20%以上，且增加了制动能量回收。
Energy-efficiency: Compared with traditional loaders, the transmission efficiency is improved by more than 20% with braking energy recovery.

▼ 更高收益：可节省燃料成本达60%以上，使用时间越长，运营收益越高；同时，纯电动系统的结构简单，保养维护需求低，大大节省维护保养时间、、材料和人工成本。
Cost performance: The fuel cost conservation is more than 60%, that the longer it is used, the higher the operating income will be. Meanwhile, the simple structure of the pure electric system will ensure easy maintenance to save time, materials, and labor costs.

▼ 根据物料及作业工况不同选配2.5-5.0m3铲斗，也可选配快换、侧卸等机具。
In accordance with different materials and operating conditions, the optional configurations include buckets of 2.5-5.0m3, as well as quick-changing and side-dumping tools.

节能 高效 High energy-conservation and efficiency

▼ 传统装载机的发动机，整体工作效率不高，液力变矩器平均效率不到70%，整机制动能量无法回收，致使油耗高、排放差。而纯电动系统的电机最高效率超过95%，变速箱平均效率可达97%，且增加了制动能量回收。
The disadvantages of the traditional loaders include low efficiency, the average efficiency of less than 70% of the hydraulic torque converter, and no recovery of the braking energy, causing high fuel consumption and high emission. Regarding the pure electric system, the maximum efficiency of the motor is more than 95%, the average efficiency of the transmission is up to 97%, as well as it is configured with the braking energy recovery function.

▼ XC958-EV总功率高达250kW,通过徐工研发的电机功率分配技术，每小时整机的耗能低于40kW · h。
The total power of XC958-EV is up to 250kW and the energy consumption is lower than 40kW · h by applying the self-innovative motor power distribution technology of XCMG.

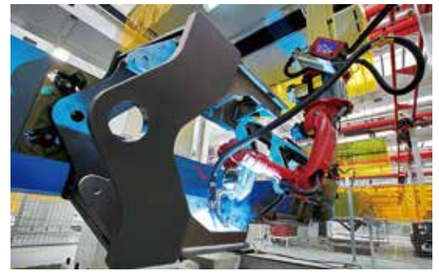
▼ XC958-EV配套了282kW · h电量的锂电池，充电时间最短仅需50分钟，在某些施工环境中利用中午休息空间即可充满电量下午再继续施工。
XC958-EV is configured with a 282kW · h lithium battery with a charging time of 50 min, which can be fully charged during time-out for continuous construction.

▼ XC958-EV相比传统燃油装载机年节省能源费用大于20万元，能耗成本仅为柴油装载机的1/3。
Compared with traditional fuel loaders, the annual energy saving of XC958-EV is more than CNY 200,000, and the energy cost is only 1/3 that of the diesel loader.

▼ XC958-EV以“电”代“油”，行走与液压采用电机控制，结构简单，免去保养空滤、机油滤、柴油滤等维护成本，节省维护时间，降低对生产作业的影响。
Replacing the oil with electricity, XC958-EV features a compact structure and motor-controlled travel and hydraulic systems without maintenance costs of air filter, engine oil filter, and diesel filter, etc., to minimize the maintenance time and the impact to normal operation.

可靠 High Reliability

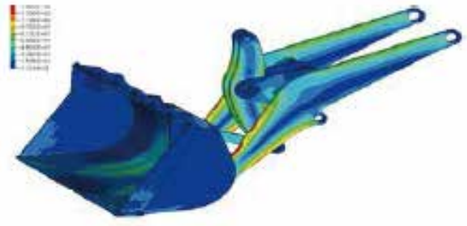
▼ 铰接大开档重型结构件，应用有限元分析技术，减少应力集中；强大的加大制造能力，结构件采用机器人焊接，保证焊缝质量
The articulated heavy structural parts are featuring finite element analysis to minimize the stress concentration. With strong and enhanced manufacturing capacity, the parts are welded by robots to ensure high quality during production.



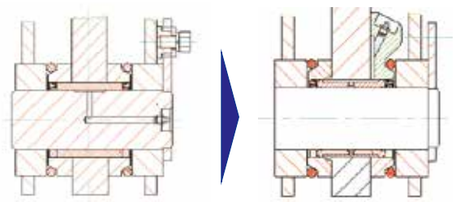
工作装置轻量化 Light-duty working devices

▼ 轻量化设计工作装置，每次举升可减少能量消耗；
Light-duty working devices to minimize the energy consumption during each elevation.

▼ 工作连杆及铲斗等结构件按最严苛工况CAE分析，优化设计，全面满足各种恶劣工况需求，铲斗关键部位专门采取防磨损保护设计。
The CAE analysis and design optimization for structural parts i.e. working linkage and bucket, etc. are completed in accordance with the most severe conditions to ensure the adaptability for multiple working conditions. All critical parts i.e. the bucket are specially protected from abrasion.



▼ 优化润滑油道，动臂与铲斗连接的销轴上不再钻孔，销轴强度和使用寿命提升1倍以上，行业领先。
Optimized lubricating oil-ways: Without the drilling of holes on hinge pins, the strength and service life of the connecting hinge pins between boom and bucket are increased by more than one time to lead the industry level.



舒适 Comfortable

▼ 新型集成式FOPS&ROPS超静音、微增压驾驶室，内部超大空间，视野更开阔、操作更舒适，座椅、方向机均具有多项调节功能，稳定模块功能有效降低整机行驶颠簸，防止物料洒落，提高运输效率，提升驾驶舒适性。全系列产品人机交互通过JACK仿真技术推演，细至每个关节的运动轨迹都进行了潜心研究；在风场理论指导下布置的智能温控系统，驾乘舒适；过板防尘、密封降噪，确保恶劣环境下的清新作业空间。

The ultra-quiet and low-pressurized cab with new integrated FOPS & ROPS systems has large internal space, wider vision, and more comfortable operation; the seat and steering mechanism have a number of regulating functions; with the stability module function, the impact of the complete machine from bumpy ride is effectively reduced, the materials are prevented from scattering, the transportation efficiency and driving comfort are improved. The man-machine interaction of full range of products are derived through the JACK simulation technology. The motion trail of each joint is deeply studied. The intelligent temperature control system is arranged under the guidance of wind field theory to ensure a comfortable driving; the dust-proof and sealed-noise-reduction damper ensures a clean working space in harsh environments.

更智能 Higher Intelligence

徐工智能管理系统 XCMG's intelligent management system

轻松驾驭 一手掌控 Easy to control and master

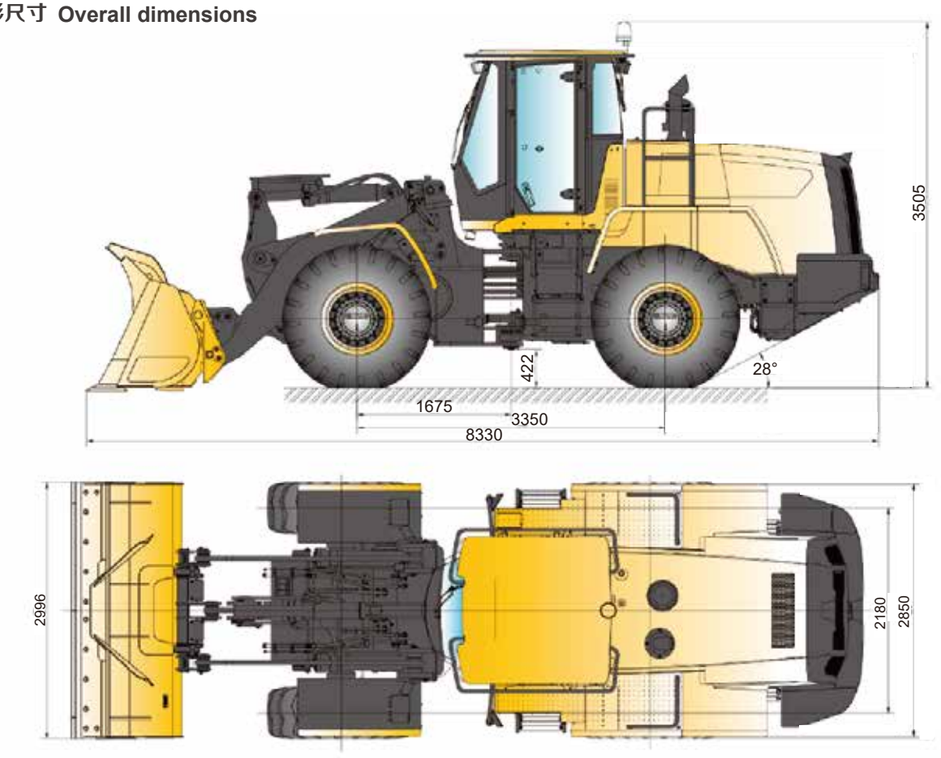
徐工智能管理系统是基于国三设备推出的，用户通过所持手机、PAD、电脑等设备，可实时掌握设备的运营、保养状况；通过数据采集及分析，实现对用户工程精准的评估，保障设备的最佳匹配。

Released on the basis of China-III equipment, the XCMG's intelligent management system enables the user to master the operation and maintenance status of the equipment via mobile phone, PAD, and computer and, by means of data acquisition and analysis, realize the accurate evaluation on user's project and guarantee the best matching of equipment.

- 优化设备匹配 Optimized equipment matching
- 提高生产效率 Enhanced productivity
- 提升管理效率 Increased management efficiency
- 减少运营成本 Lowered operation cost
- 降低运营风险 Reduced operation risks
- 优化盈利能力 Optimized profitability

参数 Specifications

外形尺寸 Overall dimensions



主要参数 Main specifications

项目	Description	参数 Specifications	单位 Unit
额定载荷	Rated load	5000	kg
斗容大小	Bucket capacity	3.2	m^3
整机工作质量	Operating mass	19000	kg
电机额定功率	Rated power of the motor	280	kW
卸载高度	Dumping height	3400	mm
卸载距离	Dumping range	1220	mm
轴距	Wheelbase	3350	mm
轮距	Wheel tread	2850	mm
最大掘起力	Maximum breakout force	175	kN
最大牵引力	Maximum traction force	160	kN
三项和时间	Total cycle time	9.6	s
最小转弯半径(轮胎中心)	Minimum turning radius (tire center)	6005	mm
轮胎规格	Tire specification	23.5-25	/
转向角度	Steering angle	40	°
整机外形尺寸(长×宽×高)	Overall machine dimensions (L×W×H)	8330×2996×3505	mm
行驶速度 Traveling speed 前进I/II	Forward I/II	17/40	km/h
行驶速度 Traveling speed 后退I	Reverse I	17	km/h

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