XCMG XC9260 electrical-drive loader

1. product overview

XC9260 is the self-innovated four-wheel independent electrical-drive loader with operating capacity up to 26 tons；The independent development of critical technology makes us the leader of large loaders by breaking the monopoly of international competitors. Designed focus on reliability, efficiency, intelligent and maintenance etc., applicable to various conditions including large strip mines, loading mining trucks, and short-distance transportation, etc. The machine is the best option for 100-130 tons mining trucks.

2. advantages

AC-DC-AC high-voltage electrical-drive system of high efficiency and quick response, featuring special functions of anti-slip, limp home mode, and automatic protection, etc.

Hybrid power and energy recovery, with effective recycling of energy generated by integrated electro-hydraulic braking (EHB) to drive the wheel rim motor and minimize the abrasion of mechanical braking.

XCMG core technology of "Intelligent electro-hydraulic proportional control system + electrical positive-flow hydraulic system + electrical load-sensing joy-stick steering system" to realize accurate and efficient compound actions during operations including loading, driving, and steering,etc.

Intelligent man-machine interaction system featuring real-time, safe, easy, and fast monitoring and diagnosis of operation as well as the complete safety protection system.

2.1. Reliability

Structural components by simulation design based on mining conditions, made of low temperature resistant and high-strength alloy steels, with high-strength casting for critical parts, featuring high loading capacity for torques and impacts under multiple working conditions.

The hub reducer assembly consisted of multiple-stage planetary wheels featuring a high drive ratio and large torque.

Oil pocket type shaft sleeve, solid pin shaft, high reliability.

The high reliability multi-functional combination instrument equipped accurately monitors the running status of the engine and accurately reads the malfunctions of engine via CAN bus communication technology. With sound-light alarm and indication, the LCD screen accurately displays the running status of the whole machine.

2.2. High energy-conservation and efficiency

Perfect matching of the engine, generator and wheel driven motor to maximize the efficiency and minimize the fuel consumption.

AC-DC-AC electrical drive system with high efficiency, advanced control technology, and fast response, as well as more than 20% of fuel conservation,compared with other hydraulic-drive loaders.

IM is featuring high reliability, low maintenance rate and large output torque, etc.

The electrical positive-flow hydraulic working system, associated with constant-power control technology, has improved the energy conservation, fast response, and controllability of the hydraulic system and the efficiency of the combination process.

The electrical load-sensing joy-stick steering system can realize the accurate control of the machine and improve the comfort of the operator.

The electro-hydraulic proportional integrated FNR joy-stick achieves intelligent control such as impact free, automatic positioning, automatic leveling, micro operation, and translational lifting, making it more energy-efficient and efficient.

Hybrid power and energy recovery, with effective recycling of energy generated by integrated electro-hydraulic braking to drive the wheel driven motor and minimize the wear of mechanical braking.

2.3. High comfort and safety

XC9 series integrated and supercharged cab, complying with the requirement of ROPS&FOPS.

Adjustable and air-suspension seats with high backrest featuring streamline design and shock-absorption, configured with training seat.

The operating data, failures, and alarms will be indicated on the LCD display with thin film button.

The silicone oil shock absorbers are adopted to connect the cab with the frame to realize the flexible vibration transmission and remarkably reduce the vibration within the

cab.

The high power heating and air conditioning system with intelligent temperature control and the pressurized cab provide you with a super-quiet and dust-free comfortable operating environment with appropriate temperature.

Noise to the operator≤75dB.

Electric ladder and escape passage, user-friendly design.

Standard automatic fire extinguishing system, safer.

Emergency stop, isolation, and jump start that meets mining standards.

Driving safety oriented strategy, making driving safer in emergency situations. 25 security oriented strategies have been developed, with L1-L4 levels of oriented security. Maintain braking priority at the highest level of L4, restart after malfunction, and restore the vehicle's power as soon as possible, ensure electric braking function .

2.4. High convenience

45° automatic ladder with three-point support for the operator with safety and comfort.

Left and right aisles with emergency exits with easy access.

The machine is configured with multiple platforms and points for maintenance and the hood is designed with various rotary structures for easy maintenance and limited duration of shutdown required.

Quick filling of fuels, engine oil, and hydraulic oil with high efficiency.

The centralized sampling of transfer case gear oil, engine oil, and hydraulic oil with easy

operation.

The centralized lubrication system is to apply greases for articulated points and prevent the failure of the lubrication system due to the blocking of certain lubricating points.

Integrated pressure test interface of the hydraulic system for easy detection and maintenance.

3. product configurations

发动机 Engine	Cummins QST30
发电机 Alternator	XCMG
分动箱 Transfer box	XCMG
轮边牵引电机 Driven motor	XCMG
轮边减速器 Driven reducer	XCMG
轮胎 tire	TECHING

4. Main specifications

参数项目 **Description**	参数 **Specifications**	单位 **Unit**
额定斗容 Bucket capacity	11.5	m^3
额定功率 Engine power	783	kW
工作质量 Operating weight	126000	kg
最大掘起力 Maximum breakout force	≥710	kN
轴距 Wheelbase	5900	mm
轮距 Wheel tread	3400	mm
铰销高度 Height of hinge pin（standard and high lift）	6985/7485	mm
卸载高度 clearance at maximum lift（standard and high lift）	4726/5229	mm
动臂提升时间 lifting time	≤10.5	s
三项和时间 Total cycle time	≤18	s
转向角度 Steering angle	42	°
车速 Vehicle speed	0-24	km/h
最小转弯半径(轮胎中心) Minimum turning radius (tire center)	9385	mm
整机外形尺寸（长×宽×高）Dimension of the machine on the ground	16202×4844×5762	mm
轮胎规格 Tire specification	45/65-45	-