

### 创新点 Innovations

- 1.采用电网和锂电池复合供电技术。既可以电缆直接供电，也可以锂电池供电。解决履带式挖掘机移动不灵活的不足之处。
- 2.自主研发变转速的负载敏感专用控制系统，液压参数大闭环反馈，扭矩预测及扭矩直接控制，全局功率匹配，按需供油、减少节流和溢流损失。
- 3.多电机协调控制，电机负载合理匹配，优化能量管理，高效运行；分时工作，自动怠速停机，减少电机、泵空转能耗。
- 4.540V高压解决方案，降低电流；高效永磁同步电机，智能变转速控制，发热量极低，比异步电机节电20%。
- 5.锂电池和液压蓄能器复合储能，同时保证储能单元的瞬时功率和续航要求。



- 1.Adopt grid and lithium battery composite power supply technology. It can be powered directly by cables or lithium batteries. Solve the problem that crawler excavator is not flexible in moving.
- 2.Independently developed special load sensing control system with variable speed, large closed-loop feedback of hydraulic parameters, torque prediction and direct control of torque, global power matching, on-demand oil supply, reducing throttling and overflow loss.
- 3.Multi-motor coordinated control, reasonable matching of motor load, optimized energy management, efficient operation; time-sharing, automatic idle stop, reducing energy consumption of the motor and pump at idle.
- 4.540V high voltage solution, reducing electric current; high efficiency permanent magnet synchronous motor, intelligent door drive variable speed control, low heat generation, 20% energy saved than asynchronous motor.
- 5.Compound energy storage of lithium battery and hydraulic accumulator to ensure instantaneous power and endurance requirements of the energy storage unit in the same time.

### 产品特点 Features

● 零排放、零污染、低噪声。

● Zero emission, zero pollution, low noise.

● 电池安全性高，解决自燃/爆燃风险。

● High battery safety, no risk of spontaneous combustion / deflagration.

● 使用成本低。纯电动工程机械用电成本大约为传统工程机械油耗费用的30%。

● Low use cost. The electricity consumption cost of pure electric construction machinery is about 30% of the fuel cost of traditional construction machinery.

● 电池达到8年以上使用寿命，所用磷酸铁锂电池1C循环寿命在4000次以上。

● The lifespan of the battery is more than 8-year. The recycle lifespan of lithium iron phosphate battery under 1C is more than 4000 times.

● 维护成本低。不需要对柴油机进行定期保养，如更换机油、三滤等。

● Low maintenance cost. No need for regular maintenance for the diesel engine, such as replacing the engine oil and three filters, etc.

● 优化能量管理，出色的能量利用效率和续航力，配合大容量锂电池，充满电连续作业7-9小时。

● Optimized energy management, excellent energy utilization efficiency and endurance, together with high-volume lithium iron phosphate battery, 7 to 9 working hours after full-charging can be guaranteed with large capacity lithium battery.

## 性能参数 Performance parameter

	性能 Performance	参数 Parameter	
基本参数 Basic parameter	整机工作质量,kg	Operating mass,kg	≤8500
	履带轨距, mm	Track gauge, mm	1740
	履带轴距, mm	Crawler wheelbase, mm	2110
	尾部回转半径, mm	Turning radius, °	1965
	最小离地间隙, mm	Min.Ground clearance, mm	380
	整机长度, mm	Overall length, mm	5970
	整机最大总高度, mm	Overall height, mm	2600
	整机最大宽度, mm	Overall width, mm	2190
	上车宽度, mm	Width of Upper Structure	2100
	驾驶室高度, mm	Cab height, mm	2600
	斗容量, m <sup>3</sup>	Bucket capacity, m <sup>3</sup>	0.1-0.28
	推土板高度, mm	Max.Gradeability, %	350
	标准履带板宽度, mm	Standard track width, mm	450
	行驶速度(高/低),Km/h	Max.driving speed, Km/h	3.8/2.5
	爬坡能力	Max.Gradeability, %	≥70%(35°)
	系统工作压力,MPa	System working pressure,MPa	28
	回转速度,r/min	Rotating speed,r/min	11.5
最大挖掘力,KN	Max.digging force,KN	50	
系统容量 System capacity	液压油箱容量, L	Fuel tank capacity, L	200
	电池容量, kW.h	Battery capacity, kW.h	140
电机参数 Generator parameters	电机类型	Model	永磁同步电机, Permanent magnet synchronous motor
	额定功率, kW	Rated power, kW	46.5
	额定转速,r/min	Rated rotating speed	2000
液压系统 Hydraulic system	压力,MPa	Pressure,MPa	28
	流量,L/min	Flow,L/min	160
制动方式 Braking method	行车制动	Service brake	液压制动 Hydraulic brake
	制动压力, MPa	Brake pressure, MPa	12
	停车制动	Parking brake	中央驻车制动 Central parking brake
DC/DC参数 DC/DC parameters	输入电压, V	Input voltage, V	DC540
	输出电压, V	Output voltage, V	DC27
	功率, kW	Power,KW	3

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