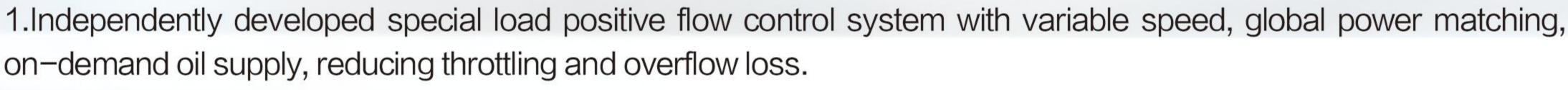


HNL-16EL纯电动轮式装载机 HNL-16EL Electric Wheel Loader

创新点 Innovations

- 1.自主研发基于变转速的正流量控制系统,全局功率匹配,按需供油、 减少节流和溢流损失。
- 2.行走系统采用自主研发电机-泵马达-减速器,转速转矩复合控制, 负载扭矩主动预测及扭矩直接控制,动力强劲,能耗低。
- 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.对各种负值负载进行再生发电,基于动力 锂电池能量回收,提高整机能源利用率。



- 2. The travelling system adopts independently developed motor pump/motor reducer, compound control of speed and torque, active prediction of load torque and direct control of torque, with strong power and low energy consumption.
- 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. Renewable power generation for various negative loads, energy recovery based on power lithium batteries, improving energy efficiency of the whole machine.

- ●零排放、零污染、低噪声。
- Zero emission, zero pollution, low noise.
- ●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 machinery.
 - 在4000次以上。 construction
- Low maintenance cost. No need for regular maintenance for the diesel engine, such as replacing the engine oil and three filters, etc.

- 电池安全性高,解决自燃/ 爆燃风险。
- 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
- 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。

- High battery safety, no risk of spontaneous combustion / deflagration.
- 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.
- Optimized energy management, utilization excellent energy 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.

●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。

性能参数 Performance parameter

	性 能 Performa	nce	参数 Parameter
基本参数 Basic parameter	耗电量	Electric Consumption Rate	10-15度/小时(依工况 variance with working condition)
	额定载重量	Loading Rate	1600kg
	铲斗容量	Bucket Capacity	0.9m3
	掘起力	Up digging Force	47KN
	整机操作重量	Operating Weight	5200kg
	卸载高度(卸载角度为45	5°) Max. Dumping Height	2450mm
	卸载距离(卸载角度为45	5°) Dumping Distance 45° Angle	850mm
传动系统 Transmission System	传动方式T	Transmission	机械传动 Mechanical Transmission
	变速箱档位	Transmission Gear	前进2/后退1 Front 2 /Rear 1
	前进l档车速	Max. Speed of Forward I	10km/h
	前进II档车速	Max. Speed of Forward II	32km/h
	后退l档车速	Max. Speed of Rear I	10km/h
	爬坡度	Grade ability	57%
	牵引力	Traction	55kN
行走电机参数 Parameter of Travel Motor	电机类型	Motor Type	永磁同步电机Permanent Magnet Synchronous Motor
	电机额定功率	Motor Rated	45kW
	电机运行效率区间	Motor operating efficiency range	86%-98%
主泵电机参数	电机类型	Motor Type	永磁同步电机Permanent Magnet Synchronous Motor
Parameter of Main Pump Motor	电机额定功率	Motor Rated	30kW
	电机运行效率区间	Motor operating efficiency range	86%-98%
	电池类型	Type	磷酸铁锂LiFePO
电池参数 Battery	电池额定存储能量	Battery rated storage capacity	109.3Kwh
	电池额定容量	Rated Capacity of Battery	202AH
	标称电压	Rated Voltage	541V
	The second secon	Rounds of full charge and discharge cycles	4000次以上 More than 4000 times
	理论使用寿命	Theoretical Service Life	>8年 over 8 years
	充电时长	Charge time	0.6-1.5h (根据充电桩而定 Variance with the Charger)
液压系统 Hydraulic System	压力	Pressure	25 MPa
	流量	Flow Rate	150 L/min
	提升时间	Raising Time	5 s
	三项和时间	Total cycle time	10 s
转向系统 Steering System	转向器型式	Steering gear Model	BZZ5-E315C
	压力 ***	Pressure Ctanaian Trans	16 MPa
	转向方式	Steering Type	铰接式车架转向Articulated frame steering
制动方式 Brake Mode	转向角 45.45.45.45.45.45.45.45.45.45.45.45.45.4	Steering Angle	35°
	行车制动	Travel brake	钳盘式制动Clamp disc brake
	制动气压	brake air pressure	0.5-0.7 MPa
	停车制动 整机高度	Parking Brake Overall Height	气推油盘式制动Air push oil disc brake 2800mm
主要尺寸	整机宽度	Overall Height Overall Width	1920mm
	整机长度		6000mm
	轴距	Overall Length Wheel base	2240mm
	轮距	Wheel Tread	1482mm
	半 定	Bucket with	2000mm
	离地间隙	Ground Clearance	290mm
	转弯半径(外侧)	Turning Radius(External)	≥4970mm
驾驶方位 Driver position	中心区	Central	>437 UTIITI
座位方式Driver seat	座驾式	Sited	
标准轮胎(可充气) Standard Tires (Pneumatically)	车轮数	Nos. of Wheels	前2/后2 F2/R2
	驱动轮数	Driving Wheel	四轮驱动 4 wheels Driving
	轮胎尺寸	Size of Tire	16/70-20PR
	ר א לבונוטד	OIZO OI TIIO	10/10 20110

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