

LET'S MAKE CONSTRUCTION EASIER

GROUP PRODUCTS



SHANTUI

EE225

ELECTRIC EXCAVATOR



Shantui Social

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Battery capacity	422kW.h
Continuous working period	5-7H
Operating Weight	22,400 kg
Bucket Capacity	0.95~1.2(1.05) m ³

ZERO EMISSION ELECTRIC POWER

EE225 ELECTRIC EXCAVATOR

BATTERY ELECTRIC DRIVE ENVIRONMENTAL PROTECTION & ECONOMIC EFFICIENCY PROFITABLE

THE POWER BATTERY PACK IS RECHARGED VIA DUAL CHARGERS RAPID CHARGING TECHNOLOGY.

FULLY RECHARGEABLE IN 1.5H ^{*(1)}

ZERO EMISSION, ENVIRONMENTAL PROTECTION, LOW ENERGY CONSUMPTION AND FEW MAINTENANCE ITEMS

WITH USE COST 70% LOWER THAN THAT OF ICE-DRIVEN MODELS ^{*(2)}

HIGH-PERFORMANCE POWER BATTERY PACK WITH STRONG POWER

ABILITY TO WORK CONTINUOUSLY FOR 5-7H ^{*(3)}

WITH WARRANTY OF 5 YEARS FOR POWER BATTERY PACK ^{*(4)}

^{*(1)}: Typical value when charged with 240kW dual chargers at the ambient temperature of -10° C to +30°C;

^{*(2)}: Varying slightly in the proportion of the use cost reduction for the electric excavator depending on the construction scenario;

^{*(3)}: Typical value at the ambient temperature of -10° C to +30°C depending on the actual working conditions of customers;

^{*(4)}: With warranty of 5 years or 10,000h for power battery pack, and the decayed capacity of power battery pack not less than 70% of the original capacity.



EE225 battery electric excavator is developed on the basis of Shantui hydraulic excavator which is technically stable and reliable. In light of the rich R&D experience of Shantui's new energy R&D team and various resource lines, the machine has excellent performance, and its operation efficiency is 8% higher and energy consumption is 70% lower than that of diesel excavators. The machine is equipped with large-capacity power battery, with a range of 5-7h, which can be recharged fully in 1.5h, and has the advantages of zero emissions, low noise, low use cost, low maintenance items, long maintenance cycle, etc. It is applicable in steel plants, power plants, municipal projects, port operations and confined spaces etc.

SPECIFICATIONS	EE225
Dimension (mm)	9699×2980×3040
Operating Weight (kg)	22400
Bucket Capacity (m³)	0.95~1.2 (1.05)
Rated power (kW)	150
Digging Force of Bucket Rod (kN)	107
Digging Force of Bucket (kN)	148
Grounding Pressure (kPa)	477
Battery Capacity (kWh)	422
Max. Digging Height (mm)	10100
Max. Unloading Height (mm)	7190
Max. Digging Depth (mm)	6490
Max. Vertical Digging Depth (mm)	5770
Max. Digging Distance (mm)	9865
Max. Digging Distance at Ground Level (mm)	9680
Max. Slewing Radius of working Device (mm)	2970



EE225 ELECTRIC EXCAVATOR

RELIABILITY

POWER BATTERY SYSTEM

With high-capacity lithium iron phosphate power battery, the total energy capacity is 422kWh, which provides a range of 5-7h; it can be fully recharged in 1.5h when charged with dual chargers.

INTELLIGENT TEMPERATURE CONTROL SYSTEM

BTMS+ intelligent control system with good energy-saving and noise-reduction effect can realize efficient and intelligent cooling of power battery, motor and motor controller.

CONTROL SYSTEM

- On the basis of Shantui SE225 excavator which is technically stable and reliable, the performance of the whole machine is stable and reliable.
- With Linde positive flow system, the movement is well coordinated and the operation efficiency is increased by 8%.
- The whole machine has standard, powerful and energy-saving power modes, which can be selected for reasonable matching of power, efficiency and energy consumption according to the actual working conditions and load requirements.

ADAPTABILITY TO WORKING CONDITIONS

Low noise, zero emission, suitable for special working conditions with high emission requirements. With high-strength working device, the key parts such as lower frame, bucket rod and boom are reinforced to meet the demands of various working conditions.



COMFORT

DRIVING SYSTEM

- With dual-purpose air conditioning system, cigarette lighter, USB charging port, radio and fire extinguisher, etc. as standard configuration, it provides richer humanized driving experience and comfortable and safe driving environment.
- The noise at the operator's ear is less than 70dB, which greatly improves driving comfort.
- The seat can be adjusted vertically and horizontally to provide the operator with the most comfortable control position.



ELECTRICAL SYSTEM

- With 8-inch high-definition display, the vehicle data information is displayed clearly and distinctly.
- Fully rechargeable in 1.5h with 240kW dual chargers at the rapid charging ports.
- Key electrical and hydraulic components with stable quality and high reliability.



EASY MAINTENANCE



CONVENIENT MAINTENANCE

The whole machine is battery-driven, with few maintenance items and long maintenance cycle. The lubrication points of the whole machine are optimally arranged for the convenience of daily maintenance.

* The specifications are subject to change without notice. The pictures may include options. The actual color & appearance of the product may differ from what is shown.

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ELECTRIC EXCAVATOR

KEEP IN MIND THE MISSION OF GREEN DEVELOPMENT



ECONOMIC BENEFITS

The battery electric excavator saves RMB 138 per hour (Mode P) compared to the ICE-driven excavator, and the annual cost savings is RMB 420,900 (Mode P).

Items	ICE-driven Excavator (Mode P)	Battery Electric Excavator (Mode P)
Hourly Average Energy Consumption (L; kWh)	24	90
Unit Price of Energy Consumption (RMB)	8	0.6
Hourly Cost (RMB)	192	54
Daily Working Time (h)	10	10
Number of Working Days per Year	300	300
Annual Energy Consumption Cost (RMB)	576000	162000
Difference in Annual Energy Consumption (RMB/3,000h)	414000	414000
Annual Maintenance Cost (RMB/3,000h)	Engine oil	1500
	Air filter element	2200
	Fuel filter element	2000
	Engine oil filter element	1200
	Hydraulic oil	5000
	Lubrication	1000
Annual cost saving (RMB/3,000h)	420900	

Note: Battery electric excavators can avoid or reduce the production restriction and shutdown due to environmental emission requirements, which can bring huge indirect benefits.

SOCIAL BENEFITS

Let's share the responsibility of low carbon and emission reduction: A single battery electric excavator can reduce 216t CO2 per year.

Environmental Benefits	ICE-driven Excavator (Mode P)	Battery Electric Excavator (Mode P)
Fuel Consumption (h/year)	3000	3000
CO2 Emission (ton)	216	0
Unit Price of Carbon trading (RMB/ton)	About RMB 50-60/ton	
Environmental benefits of battery electric excavator (RMB)	RMB 12,960 additional revenue per year	

Note: The integrated electricity price is RMB 0.6/kWh. It is estimated on the basis that 3kg CO2 will be released after 1L diesel is burned.

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