



SKT90E

Electric Off-Highway Dump Truck

Mining Hero
Leading future with wisdom



Economize Energy

The industry's pioneer dual motor engine driving technology Energy recovery efficiency is increased by **10%**.



Comprehensive Security

Equipped with electric braking system, electric retarder and drum brake to meet the long distance heavy load downhill braking requirements.



Deluxe Cab

Equipped with dual three-shift automatic/ manual transmission (AMT) and oil-gas suspension system instead of the traditional spring structure to greatly improve operating comfort.



Powerful Performance

Dual robust motor engines allow maximum gradeability of **39%** which is **10%** higher than similar products in market.



High Reliability

High strength and low stress frame reduces body stress by **50%** compared with similar products.



Extended Battery Life

Applies large capacity high density lithium iron phosphate. Power battery capacity up to 160km in heavy duty downhill conditions.



Faster Charging

It takes only 1 hour to be fully recharged, and needs recharge only once in a day.

Main parameter

Items	Parameter
Struck/heaped (m ³)	33/ 38
Gross power (kW)	740
Steering radius (m)	≤12.5
Max. travel speed (km/h)	46 (recommended)
Gradeability (%)	≥39%
Min. ground clearance (mm)	≥350
Lifting time (s)	≤35
Endurance distance (km)	≥160 (loaded downhill)

Weights parameter

Weights	kg	lb
Net weight	37,000	81,570
Payload	60,000	132,277
Max. gross weight	97,000	213,847

*The maximum gross weight of the vehicle includes alternative devices, all accessories and loads, etc.

Critical parts warranty period

No.	Critical Parts	Warranty period
1	Power Battery	Five years or 200,000km/ 124,274mi
2	Motor + electric control	Three years or 150,000km/ 93,206mi

Battery

High density lithium iron phosphate battery specially designed for mining equipment enables high safety and extended service life. The battery pack adopts customized die-cast aluminum shell to greatly improve seismic performance. Super long warranty, 5 years or 200,000km/124,274 miles (whichever earlier).

- Model: Lithium iron phosphate
- Battery capacity: 350kWh (optional 422kwh)
- Charging time: 1 hour (SOC 25%-95%)

Powertrain system

- SANY Independently developed large torque dual 3-shift AMT automatic transmission with strong power and smooth shift. Dual motor supporting operation ensures cost and energy saving. Comprehensive transportation efficiency is increased by more than 25%. The dual motor combination can maximize the recovery of braking energy.
- Model: CED21000
- Motor normal power: 220kW/370kW
- Motor peak power: 440kW/740kW
- Maximum torque: 2300N · m
- Gearbox: Dual three-shift gear
- Transmission speed ratio: 11.63/7.647/5.04/3.479/2.415/1

Axle

- Heavy load type, full floating half shaft, main reducer compact structure, large torque transmission, with enhanced planetary wheel reducer, high strength cast steel axle housing. Load capacity: 25t+35t+35t.
- Rear axle speed ratio: 14.298.

Steering system

- Full hydraulic steering and emergency steering system improve driving comfort. Light and reliable steering system can avoid risks when losing power or in other emergency conditions.

Hoist system

- ø196mm single cylinder.
- Smooth forward lift and smooth lifting process ensures high reliability.

Suspension system

- Front suspension: independent hydro-pneumatic spring suspension, equipped with variable damping characteristics of oil/gas (nitrogen) suspension cylinder, large energy storage unit, variable stiffness characteristics, features good absorption of road impact.
- Maximum impact stroke: 160mm
- Rear suspension reinforced spring & maintenance-free balance shaft & tie rod
- Rear leaf spring size: 18×27mm×120mm (piece × thickness × width)
- Balance shaft: axle diameter: 130mm maintenance-free balance shaft.

Body

- The body skeleton adopts penetration type with five vertical and seven horizontal steel structure.
- Patented diamond structure compact assembly with chassis. Shaft load distribution is reasonable. The main steel plate adopts high strength wear-resisting plate NM400B.
- Thickness: bottom plate: 16mm; Side plate: 10mm; front plate: 10 mm
- Capacity: struck: 33m³; heaped: 38m³

Cab

- Full skeleton structure improve operate safety. Large area front windshield design provides wider vision. Mechanical suspension seat, standard heating and cooling air conditioning.
- surround instrument panel, adjustable steering wheel provides more area for the operator.

Tire

- Tire Model: 16.00R25

SANY