



# SKT90E

## Electric Wide-body 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 <sup>3</sup> )	33/ 38
Gross Power (kW)	700
Steering radius (m)	≤ 12.5
Max. travel speed (km/h)	30 (recommended)
Gradeability (%)	≥ 39%
Min. ground clearance (mm)	≥ 350
Lifting time (s)	≤ 35
Endurance distance (km)	≥ 160 (loaded downhill)

## Weight 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 vehicle weight (GVW) includes optional equipment, fully filled fuel tank, loadings, 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

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### Reminder:

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## 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/525kWh)
- 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: 210/350kW
- Motor peak power: 420/700kW
- Maximum torque: 1800N · 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: 12.87/14.298

## 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 hoist cylinder, single cylinder.
- Smooth forward lift and stable lifting process ensure 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 dia.: 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: 33m<sup>3</sup>; heaped: 38 m<sup>3</sup>

## Cab

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

## Tire

- Tire Model: 16.00R25 (Optional 14.00R25)

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