



SKT90E

Electric Off-Highway Mining Truck



Extended Battery Life

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

SANY[®]



Powerful Performance

Dual robust motor engines allow maximum gradeability >35%, which is 10% higher than similar products in market.

SANY®



Faster Charging

The battery takes one hour to be fully charged, and the truck needs to be recharged only once a day.

SANY[®]



Economize Energy

The industry's pioneering dual motor engine driving technology enables an energy recovery efficiency increase of 10%.

SANY[®]



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.

SANYI[®]



Comprehensive Security

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

SANY[®]

Main parameter

| Items | Parameter |
|----------------------------|------------------------|
| Struck/heaped (m³) | 33/ 40 |
| Gross power (kW) | 740 |
| Steering radius (m) | ≤12 |
| Max. travel speed (km/h) | 46 (recommended) |
| Gradeability (%) | ≥35% |
| Min. ground clearance (mm) | ≥350 |
| Lifting time (s) | ≤30 |
| 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 |
| 2 | Motor + electric control | Five years or 200,000km/124,274mi |

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Reminder:

Any change in the technical parameters and configuration due to product modification or upgrade may occur without prior notice. The machine in the picture may include additional equipment. This brochure is for reference only, and goods in kind shall prevail. Copyright at SANY. No part of this brochure may be copied or used for any purpose without written approval from SANY.

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: 2100N·m
- Gearbox: Dual three-shift gear
- Transmission speed ratio: 7.233/3.048/1.415; 4.667/2.046/1.00

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.

Brakes

- Main brake: Double independent circuit drum brakes.
- Parking brake: Spring stores energy for emergency braking.
- Auxiliary brake: Intelligent electric retarder + electric braking (energy recovery) + eddy current retarder tribble insurance for braking safety guarantee.

Hoist system

- 196m 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: ø132mm 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





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