



# SKT105E

ELECTRIC WIDE-BODY DUMP TRUCK

## Mining Hero

Leading the future with wisdom



### High security

Carry heavy load uphill without power interruption; Electrical braking+electrical retarding+drum braking help to carry heavy load downhill slowly for a long distance; Double-cylinder side lifting ensures the fast lifting speed and stable container without spilling.



### High reliability

Frame-type welded carrier frame+full hydro-pneumatic suspension, with more than 10 years of service life



### High comfort

Dual-3-gear AMT automatic gearbox, shifting without shock; full hydro-pneumatic suspension replace traditional leaf spring structure, which greatly improves driving comfort



### High energy efficiency

Adaptive regenerative braking technology; the energy recovery rate is 10% higher than that of similar products



### Intelligent electronic control system

The standard intelligent diagnosis system and T-box network connection system can realize self-diagnosis and remote data monitoring of motor, electronic control, battery and vehicle system faults.

## Main technical parameters

Item	Parameter
Body capacity(m <sup>3</sup> )	Struck: 40 m <sup>3</sup> ; Heaped: 46 m <sup>3</sup>
Gearbox	Dual-3-gear
Peak power (kw)	760
Endurance mileage (km)	≥160 (heavy-duty downhill)
Power battery (kwh)	422 optional (525)
Battery charging time (h)	≤1.2
Axle (t)	25+40+40
Steering form	Full hydraulic steering +emergency steering
Suspension structure	Full hydro-pneumatic suspension
Maximum speed (km/h)	37/42 17.62/15.6 speed ratio

## Weight parameters

Weight parameters	kg	lb
Net weight	38,000	83,600
Rated load capacity	70,000	154,000
Maximum gross vehicle weight	108,000	237,600

\*The maximum gross vehicle weight includes alternative devices, all accessories, and load, etc.

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### Battery

- Model: Lithium iron phosphate
- Electricity: 422.9 kWh (optional 525 kWh)
- Charging time: 1.2 hours (SOC 25%-95%)
- High-density lithium iron phosphate battery specially designed for mining areas, with high safety and long cycle life. The battery pack adopts a customized die-casting aluminum shell, greatly improving the shock resistance. Super long warranty, 5 years or 200,000 kilometers, whichever comes first.

### Drive axle

- Heavy load type, full floating axle shaft, compact structure and large transmission torque of final drive, with reinforced planetary wheel reducer and high-strength cast steel axle housing. Rear axle speed ratio: 15.66, optional 17.62.

### Steering system

- Full hydraulic steering+emergency steering to improve driving comfort. The steering is light and reliable. It can avoid danger after the car loses power by accident

### Hoisting system

- High-pressure and large-displacement plunger pump, with lifting efficiency increased by 30%.
- Double cylinder lifting ensures safer and more stable lifting.

### Cab

- Full skeleton structure to improve safety. Large area front windshield design provides the driver a wide vision. Mechanical suspension seat, standard cooling and heating air conditioner, surrounding instrument panel and adjustable steering wheel provide the driver a more comfortable working space.
- With FOPS/ROPS certification to ensure driving safety
- Reasonable ergonomic layout, and comprehensive upgrading of sealing and noise reduction.

### Suspension system

- Vibration isolation rate is increased by more than 30%, with more driving comfort, and protecting the carrier frame and axle
- Bench durability test qualified. Service life surpasses 10 years.
- Completely solve the problem of leaf spring breakage and tire slippage in the industry.

### Body

- The newly designed U-shaped container structure and the curved side plate structure have better impact resistance and smash resistance, and it is easier to unload goods without jamming.
- Thickness: base plate: 16 mm; side plate: 10 mm; front plate: 10 mm  
Normal volume: level loading: 40 m<sup>3</sup>; stacking: 46 m<sup>3</sup>.

### Frame

- Brand-new frame-type welded frame, with the rigidity increasing by more than 25% and the overload capacity being greater than 20%
- Pass the bench durability test, and the frame life is more than 10 years.

### Tires

- Tire model: 16.00R25.

## Power assembly

Parts	Description of optional devices
Model	CED21000 (customized version)
Main motor power	280/380kw
Ancillary motor power	280/380kw
Maximum torque	1800N.m*2
Gear-ratio	7.07/2.98/1.38&4.56/2.02/1

Self-developed high-torque dual-motor dual-3-gear AMT automatic transmission with strong power and smooth shifting. The matching operation of the dual motors is economical and energy-saving, the comprehensive transportation efficiency is improved by more than 25%, and the power for heavy load uphill is not interrupted. The combination of dual motors can maximize the recovery of braking energy.

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