

ZOOMLION TECHNOLOGY WITH INGENUITY AND CARE



The world's leading full-process smart mining machinery manufacturing factory

Zoomlion Mining Machinery Company possesses globally leading intelligent production lines featuring smart, environment-friendly and internationalized technologies, covering high-end machinery for the full process of open-pit mining, including "drilling, digging, loading, hauling and crushing". Built with advanced processing and assembly techniques and rigorous quality control, each machine delivered embodies the highest level of quality.



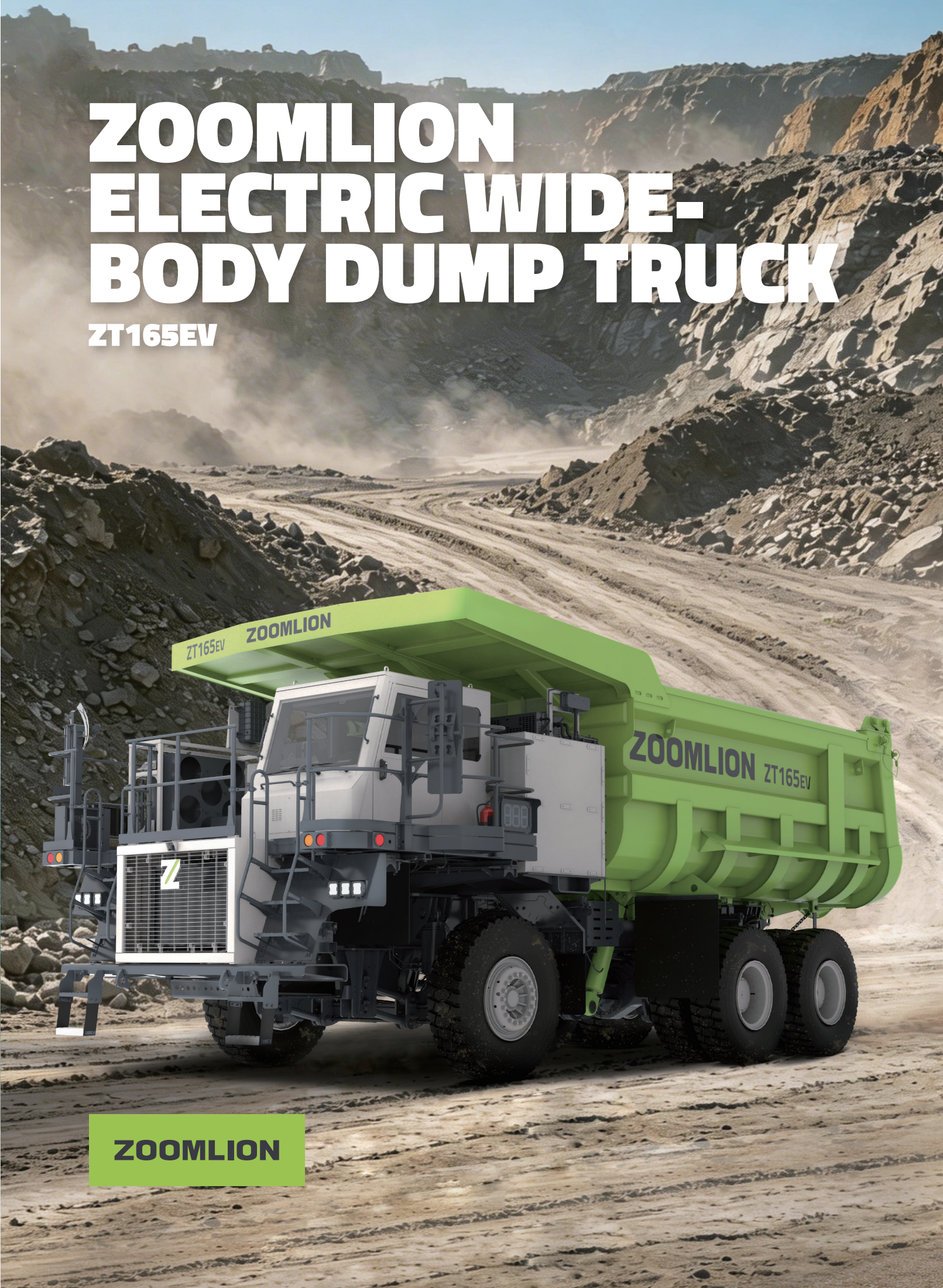
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ZOOMLION ELECTRIC WIDE- BODY DUMP TRUCK

ZT165EV



Zoomlion ZT165EV series pure electric off-road mining dump truck is equipped with CATL 801kWh battery and CED34000H powertrain. It features a gross axle load of 161t, curb weight of 61t, and rated load capacity of 100t. Standard Hydraulic Retarder + Emergency Steering, welded box-type frame, full hydraulic steering, full air-oil suspension, and mining U-shaped cargo box, adopting 6x4 drive form, Dual-cylinder Hydraulic Lifting System.



Rated Power/Peak Power:
800 KW/1100 KW

Battery capacity:
801kW-h

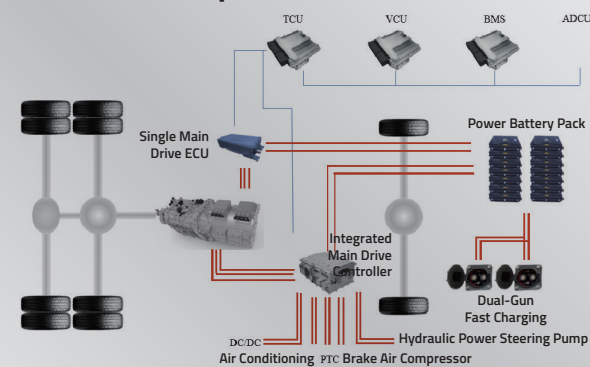
Rated Payload:
100000 kg

Body Capacity:
Struck 55 m³/ Heaped 67 m³

Curb Weight:
61000 kg

CONFIGURATION & EFFICIENCY

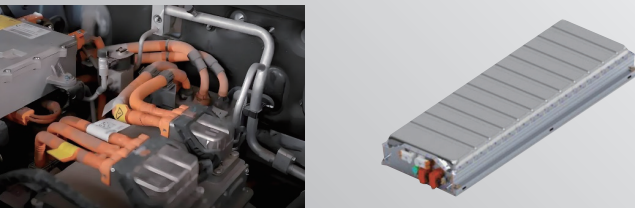
Dual-motor coupled drive mode



The ZT165EV is equipped with a permanent magnet synchronous dual-winding motor, featuring high power density and stronger power performance. It adopts an integrated electric drive system that integrates the drive motor, shifting

TCU controller and gearbox into one unit with a compact structure, specially designed for pure electric mining trucks. The continuous/peak total drive power of the ZT165EV can reach 800/1100 kW.

Mining-Specialized Power Battery



Mine-specific high-density LiFePO4 battery, ultra-high-strength casing (300,000km reliability), moisture/explosion-proof + moisture control sheets (anti-condensation), IP68 dustproof, 4500+charge-discharge cycles, hundreds of tests certified, shock-resistant and safe.

Zoomlion independently developed Intelligent-Control

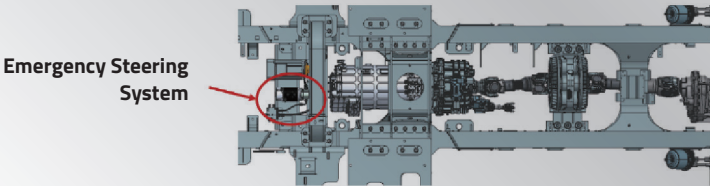


Zoomlion's fully independent VCU, with over 80 safety function tests, more than 2,000 mining condition data collection and calibration, and over 60 vehicle performance tests (including braking, steering, stability, visibility, vibration detection, current detection, thermal balance, etc.). When power is lost, the VCU automatically activates emergency steering for enhanced safety.

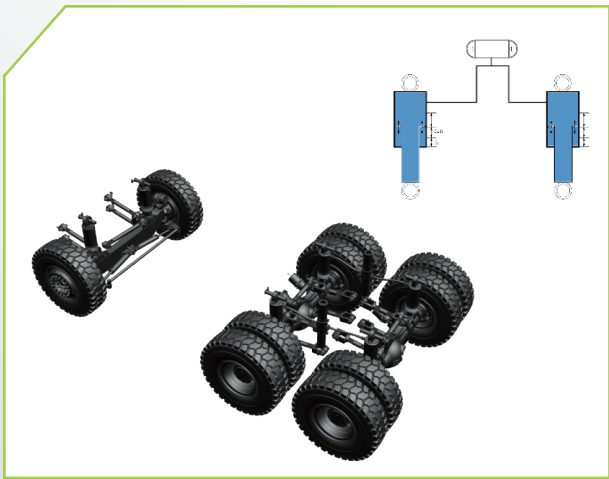


Mining specialized multiple-braking system

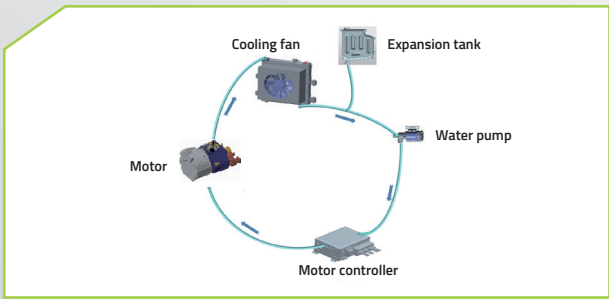
Multiple braking systems (dual-circuit drum + electric braking + hydraulic retarder + emergency braking) ensure driving safety. Electric braking recovers kinetic energy, reduces wear and extends service life. Equipped with EBS, it features ABS, ASR and HSA functions for high braking reliability. Hydraulic retarder braking: consumes potential energy when fully charged to achieve electrical balance, preventing electric brake failure due to full charge, with fast engagement, shorter braking distance and enhanced safety.



SAFE AND RELIABLE



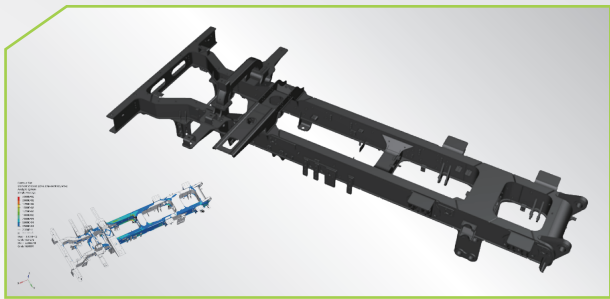
Axles are made of high-quality cast steel, featuring strong load-bearing capacity, long fatigue life and durability. The front axle is integral; key welds of middle and rear axle housings undergo 100% ultrasonic inspection. Bearings for major parts are from well-known domestic brands. Equipped with full hydro-pneumatic suspension with variable spring stiffness, it resists impact during loading, has fewer faults, enhances driving comfort and reliability, and offers better reliability and durability than leaf spring suspensions of the same class.



The power battery is paired with two sets of 13kW thermal management modules, which adjust the battery temperature in real time to ensure reliable output within the optimal range of 25°C to 40°C. The motor and electronic control system features a dual high-flow water pump design, paired with a four-fan high-power radiator. This ensures stable operation in high-temperature environments, guarantees operational safety, and supports use across an ambient temperature range of -30°C to 45°C.



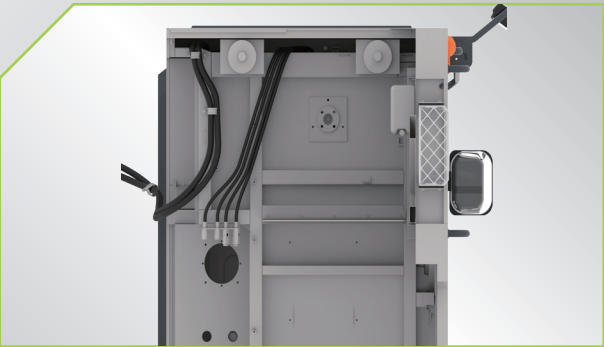
Full hydraulic power steering, with double acting steering cylinder, make steering more flexible, greatly reduce the driver's handling intensity, bring better driving experience, Equipped with emergency steering to ensure emergency steering function and timely escape in case of power loss.



Adopting a "fully enclosed integrated large cross-section" high-strength welded frame made entirely of high-strength steel, combined with full-condition simulation and analysis, while also conducting a comprehensive analysis of the weak points of competitor models

Torque resistance ↑ 20%
Safety factor > 3.5
Service life > 6 years

COMFORTABLE CONTROL



Cab understructure reinforcement
Reduction of resonance noise



Soundproof glass
All-round noise isolation, Measure according to GB/T 25615-2010 fixed position working condition, the noise at the empty driver's position shall be less than 79dB.



Optional driver fatigue monitoring system



Optional automatic fire extinguishing system



TECHNIC PARAMETERS



Model		ZT165EV
Drive form		6×4
Curb Weight(kg)		61000
Rated Payload(kg)		100000
Total Axle Load(t)		161
Overall dimension(mm)		11955×5480(4500)×4860
Wheelbase(mm)		4600+2000
Min. Turning Radius(m)		13
Max. Gradeability(%)		35
Min Ground Clearance(mm)		430
Max. Speed(km/h)		45
Axle Load		41t+60t+60t
Tires		505/95R29(Full steel wire meridian tubeless)
internal body dimension(m)		7.05×4.1×2.25
Capacity(m³)	Flat Load	55
	SAE 2:1	67

System	Features		ZT165EV
Power system	Power train		CED34000H
	Rated/Peak Power(KW)		800/1100
	Battery capacity kW.h		801
Electrical system	Backup alarm		●
	Emergency stop button		●
	24V Power port		●
	Monitoring+entertainment (Select one)	Cameras (Front, rear, left and right)	● Four channel monitoring +multimedia screen
	Roading lighting		●
	Rotating beacon on the cab top		●
	Backup lighting (Left, right and rear)		●
	Fog lights (Front and rear)		●
	GPS		●
	Battery		180Ah*2
Hydraulics	Lift cylinder (Twin-cylinder Central Lifting)		●
	Full hydraulic steering		●
	Emergency steering system		●

● 标配 Standard
○ 选配 Optional

Category	Features		ZT165EV
Drive train	Axle		ZOOMLION 41t+60t+60t
	Tire (Select one)		● 505/95R29
			○ 505/95R29-Heat-resistant
			○ 505/95R29-Hard rock
Braking system	Lubrication-free drive shaft		●
	Service brake		● Front and rear independent dual-circuit air control
	Parking brake		● Drum brake
	Electric retarder		●
	Hydraulic retarder		●
Body assembly	Body (select one)	Tailgate-overhung	● Struck 55m³,Heaped 67m³
		Tailgate-long overhung	○ Struck 55m³,Heaped 67m³
		No tailgate-overhung	○ Struck 50m³,Heaped 60m³
		No tailgate-long overhung	○ Struck 50m³,Heaped 60m³
	Tire guard		●

● 标配 Standard
○ 选配 Optional

Category	Features		ZT165EV
Cab	Narrow body left-hand drive cab		●
	FOPS		●
	0.5kg fire extinguisher		●
	Seat	Passenger seat	●
		Driver's seat	●
	Air conditioner (cool & warm)		●
	Emergency hammer		●
	12.3-inch LCD instrument		●
	Glass defrosting		●
	Three-point seat belt		●
Covering parts	Rock ejector		●
	10kg fire extinguisher		●
Suspension system	Front suspension		●Hydro-pneumatic suspension
	Rear suspension		●Hydro-pneumatic suspension
Others	Attached tools (one set for five vehicles)		●
	Specialized tools (one set dor ten vehicles)		●
General Optional Configuration	Driver fatigue dection system		○
	Customized painting		○

● Standard
○ Optional

Category	Features		ZT165EV
General Optional Configuration	Guardrails	Front bumper beam assembly	●
	Cab oxygen generator		○
	Centralized lubrication system		●
	Intelligent weighing system		●
	One spare tire (including rim)		●
	Radio station		○
	First-aid kit		○
Cold areas optional package (Ambient temperature ≥-20℃)	Cold -temperature hydraulic oil		○
	Cold -temperature gear oil		○
High-temperature areas optional package(Ambient temperature ≥40℃)	Heat-resistant tire		○
	68 Hydraulic oil		○
	85w-140 Gear oil		○

● Standard
○ Optional