



Cost savings of 8 yuan per kilometer



Reduce carbon emissions by about 100 tons per year



The monthly income is 40% higher than that of oil trucks



The three-year net income is 30% higher than that of oil vehicles

## REDUCE COSTS AND CONSUMPTION INCREASE INCOME AND EFFICIENCY



### XUZHOU XCMG MINING MACHINERY CO LTD

XCMG Mining Machinery Co LTD reserves the right of final interpretation of this manual.  
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**Service spare parts:** 400-110-9999  
**Fax:** 0516-8311 3222



Official website  
QR code



Wechat  
QR code



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Douyin  
QR code

**Norminal rated payload :72 t**

**Max. speed :43 kW/h**

**Motor power :500/800 kW**

**Battery capacity :525/700 kW·h**

## XDR80TE PURE ELECTRIC MINE DUMP TRUCK

XUZHOU XCMG MINING MACHINERY CO LTD

# REINFORCED IRON

## BATTERY

Lithium iron phosphate water-cooling battery pack from CATL is safe and reliable, enjoys high environmental suitability, and can reach a total electric quantity of 525/1528 kW·h and protection class of IP68. Effective and intelligent energy recovery system and optimization algorithms can maximize the endurance mileage.



## CHARGE

The 525kW·h model is equipped with a dual-gun charging system. The maximum charging current can reach 400A, and it can be fully charged in 90 minutes. The 700kW·h model is equipped with a four-gun charging system with a maximum charging current of 1000A, which can be fully charged in 60 minutes. (It is the first in China to shorten charging time and improve operation efficiency.) Braking and energy regeneration system: Theoretical emphasis on the downhill slope up to 10%, can achieve unlimited endurance.



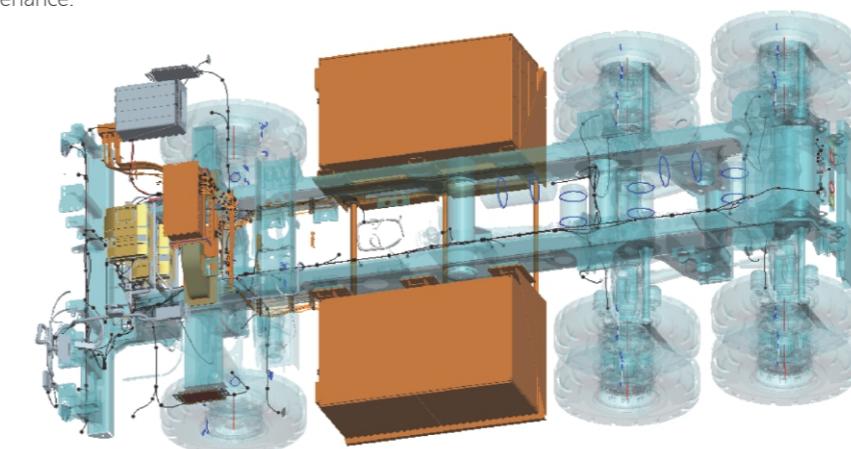
## MOTOR DRIVE SYSTEM

Dual-motor drive system provides strong power. AMT transmission has smooth gear shifting experience. The power assembly that borrows advanced technologies is efficient and energy-conserving. The drive motor is maintenance-free and the transmission has a low maintenance cost. Motor radiator and fan are featured with large air volume, low power consumption, good shock resistance and convenient maintenance. The all-weather thermal battery thermal management system adopts a variety of temperature control technologies such as electro film heating, water cooling unit and air cooling heat dissipation. It is suitable for high altitude (under 4000m) and extremely cold (-22°C) and hot weather (44°C) .



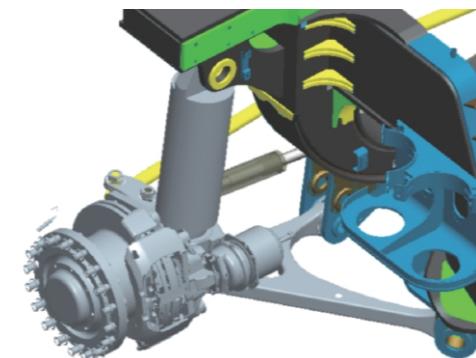
## AN INTEGRATED ELECTRICAL SYSTEM

The electrical system is composed of cab electrical module, high voltage electrical module, frame electrical module, weighing electrical module and deck electrical module. It has the advantages of high integration, high safety, convenient installation and maintenance.

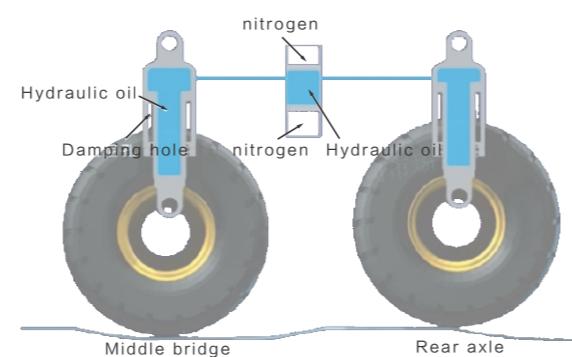
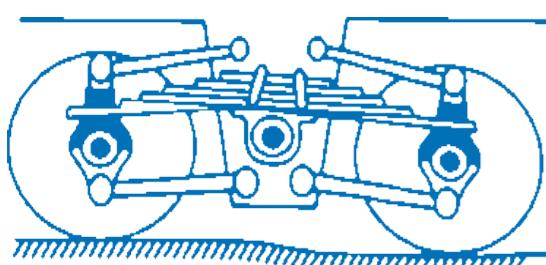
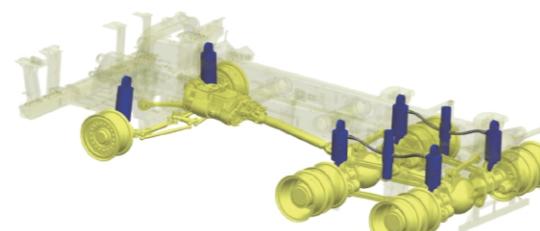
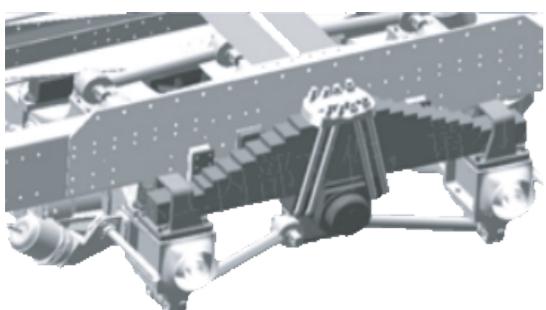


# TO SHOULDER HEAVY RESPONSIBILITIES

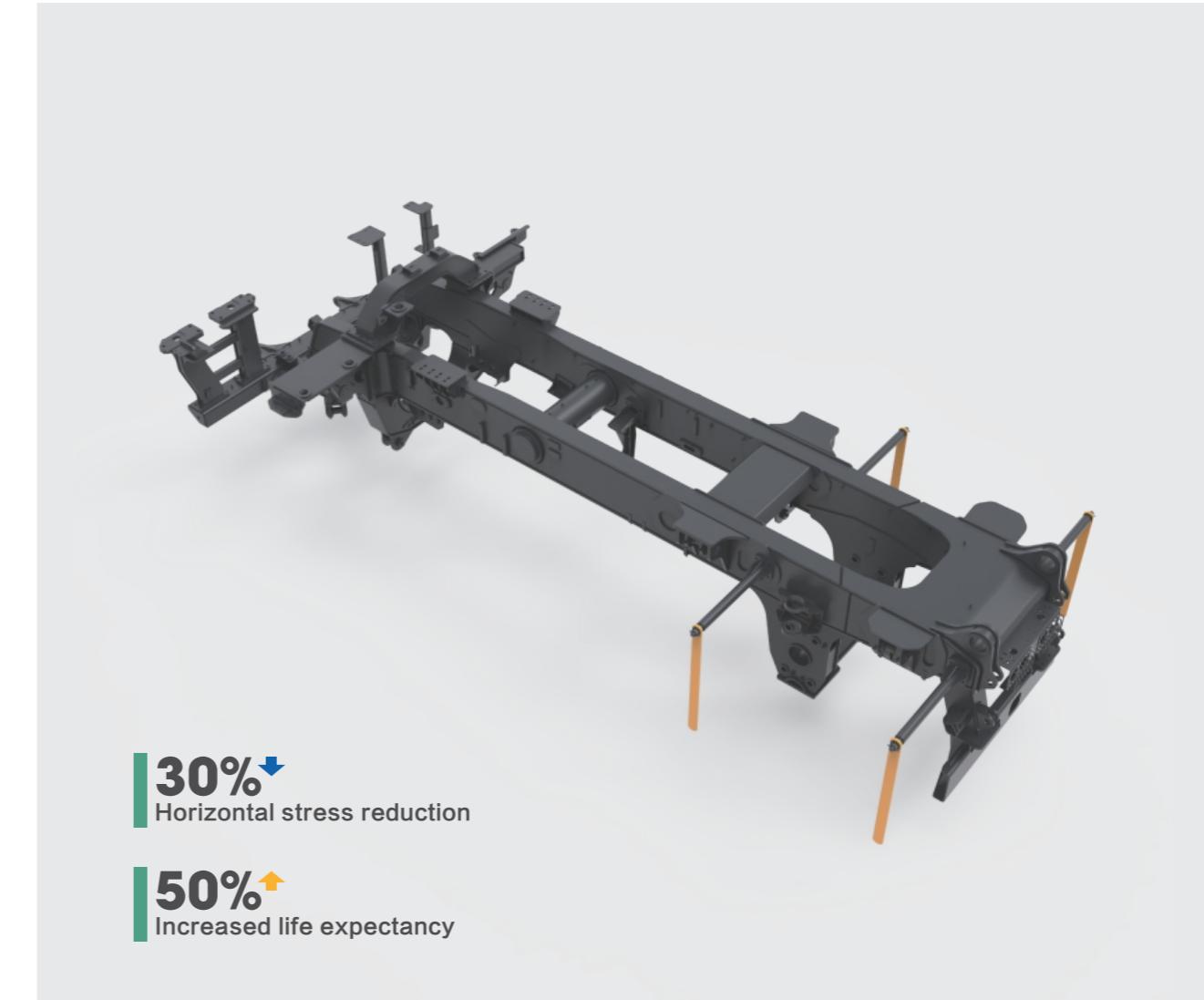
## THE WORLD'S FIRST THREE-BRIDGE RIGID MINING DUMP TRUCK



The world's first three-bridge rigid wide-body dump truck, using the whole hydro-pneumatic suspension system. With excellent damping and buffering performance, reduce the vibration of the whole machine. High and low pressure double chamber accumulator, no load and full load have excellent buffering performance. The front axle is independent suspension, the left and right wheels do not affect each other, reduce the tire slip wear, the body is not easy to tilt over the road condition, with the broken open steering ladder structure, small steering error.



Tri axle rigid mining truck Middle and rear axle suspension structure



## FRAME DESIGN

Anti-fatigue optimization technology of all welded frame. The beam and longitudinal beam of the frame constitute a closed structure; The longitudinal beam is a box section structure, and the beam is a torsional tube, which can eliminate the concentrated source of bending and cracking stress. The frame is made of high quality low alloy high strength steel, and the important welds are 100% inspected by ultrasonic. The overall stress level is 70% lower than that of the wide-body car industry. The key welds are fully fused and welded, and the flaw detection is 100% to ensure the anti-fatigue performance. More than 90% attendance in mainstream mining areas at domestic and abroad.

# IRONBONE-REINFORCED IRON

## IRONBONE-REINFORCED IRON

### BODY

With lightweight design, the bottom plate and side plate of the cargo box are made of high wear-resistant steel, which is resistant to cracking, deformation, swelling and has a longer service life. Both side panels and front panels of the container are reinforced with thick reinforcement bars.



### STANDARD CONFIGURATION

Flat bottom cargo box with tail door



BUCKET TYPE	EARTHWORK BUCKET-BOX				
USE	TRANSPORTING SOIL OR SAND (not more than 30% of hard rock)				
volume(m <sup>3</sup> )	stow	45	49	51	54
Internal dimension(mm)	L	6070	6070	6070	6070
	W	3900	3900	3900	3900
	H	1400	1600	1750	1800
Material characteristics	Loose density $\leq 1.81\text{t/m}^3$ (Earth-rock mixture)	Loose density $\leq 1.62\text{t/m}^3$ (Clay, small particles of stone)	Loose density $\leq 1.50\text{t/m}^3$ (Sandy soil)	Loose density $\leq 1.44\text{t/m}^3$ (Sandy soil, coal)	
Applicable condition					

# TASK WEIGHT

XDR80TE is equipped with load weighing system, which is used to monitor, record and upload net load information, display real-time weight on the cab dashboard and on both sides of the vehicle, which can realize fault self-test and alarm record. Help users optimize loading quality management, improve vehicle loading efficiency and ensure driving safety.



# LONG WAY



# COMFORTABLE AND SAFE

## COMPREHENSIVE RELIABILITY

Improve efficiency: With the core technology of all-welded frame anti-fatigue frame and all-oil-gas suspension, XDR80TE is lead role of 70 tons dump truck, greatly reducing the comprehensive use cost. XDR80TE has become an important driving force to promote the realization of "green mine".

## IMPROVE TRANSPORTATION EFFICIENCY

Transportation link is the most important part of open-pit mining cost, and fuel occupies 54% of the operating cost of Sanqiao mining dump truck. Instead, XDR80TE can be used to save up to 50%. Under the special conditions of 10% slope of heavy load downhill, unlimited endurance can be realized.



# COMFORTABLE AND SAFE

## AUTOMATIC LUBRICATION SYSTEM



Automatic lubrication system regularly lubricates components, reducing maintenance time and maintenance costs.

## OPERATING SYSTEM PERFECT



Resin process of the center console, equipped with 11 inch LCD screen, all parameters at a glance. Resin process center console with 11 - inch LCD screen.

## THE INTERIOR IS FULLY EQUIPPED

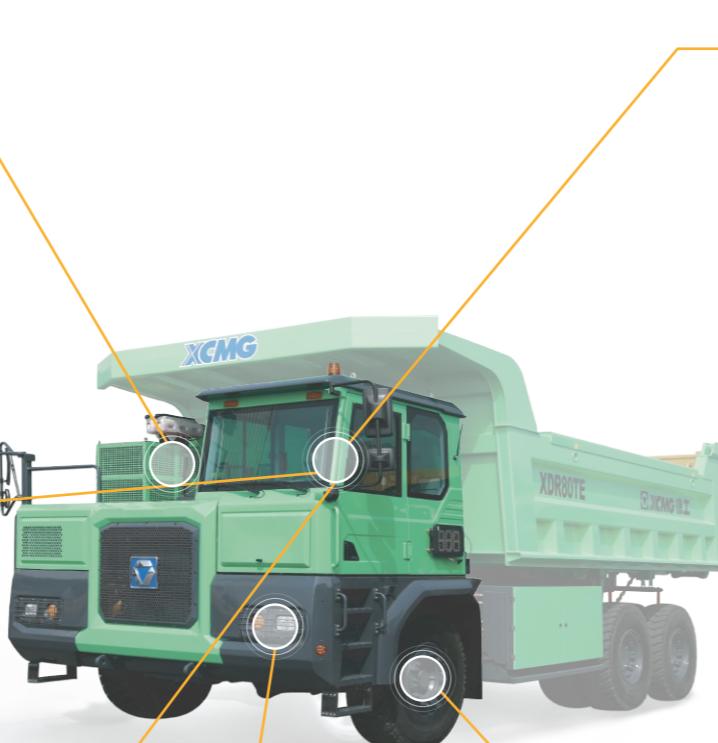


Standard suspension seat, especially in long-distance transportation, driver control more comfortable. Equipped with electric windshield wiper and cleaner, thickened glass, heating and cooling air conditioning, four seasons worry free.

## LIGHTING SYSTEM



The lighting system is all LED lights, consisting of headlights, turn signals, contour lights, parking lights, reversing lights, maintenance lights, etc. The location of the lighting and warning lights is reasonable to meet the lighting and warning requirements when working in various weather environments.



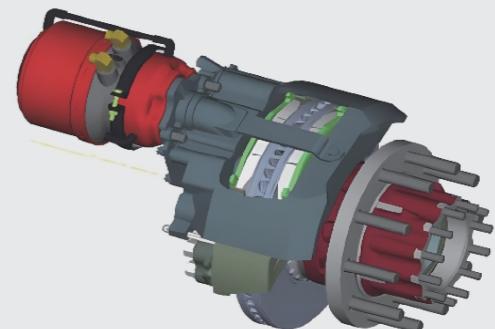
## COMFORTABLE BRIDGE

The cab design adopts ISO 3471 and SAEJISO3449/SAEJ1040 standards, with ROPS&FOPS protection against falling objects. Optional imported Grammer seats, RESPA cab booster system, reasonable ergonomic design to ensure cab comfort. Water heating and high power air conditioning are adopted to avoid the safety hazard of high voltage electric heating used in the industry into the cab.



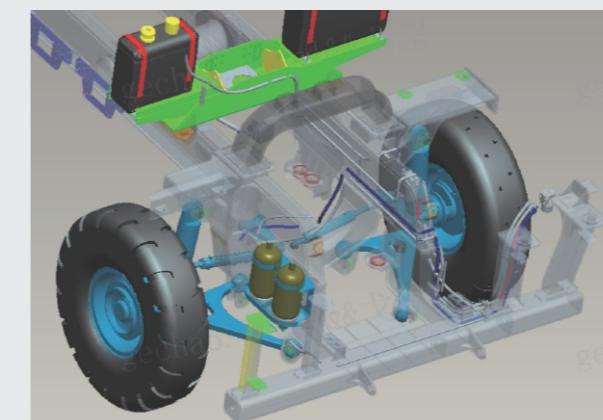
## BREAKING

Using pneumatic clamp disc and electric auxiliary braking system, braking stability, safety and reliability, simple structure, easy maintenance. Equipped with braking energy recovery system, the maximum auxiliary braking power of motor is 800kW, making braking safer.



## STEERING

Equipped with full hydraulic + emergency steering, smooth steering, soft braking, sensitive response. Solve the problem that the current vehicle can only emergency brake after losing power and cannot steer. The steering accumulator is configured to provide emergency pressure to ensure steering in case of engine failure.

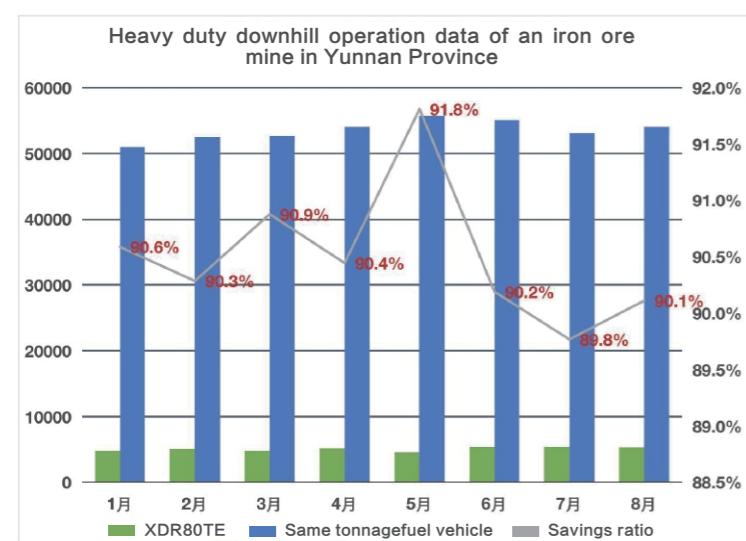
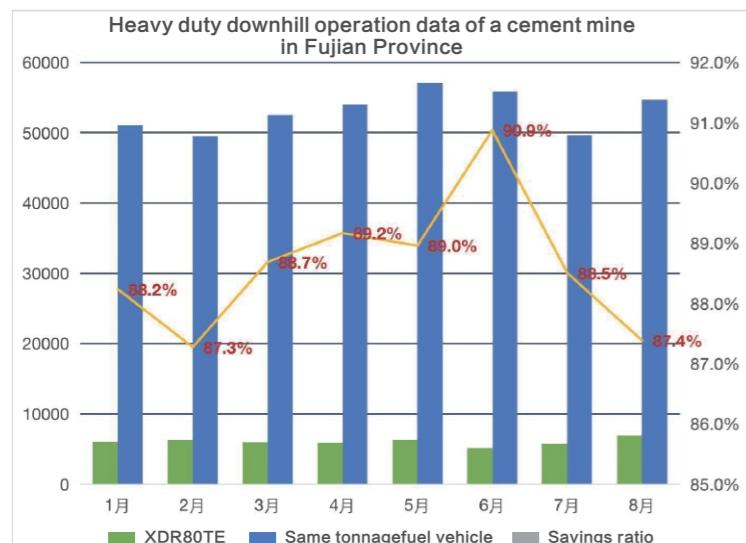


## TIRES

Equipped with 16.00R25 all-steel radial tires tires, the vehicle has a large ground clearance and good passability; the tires are basically free of overload and have a long service life.



# COMFORTABLE AND SAFE

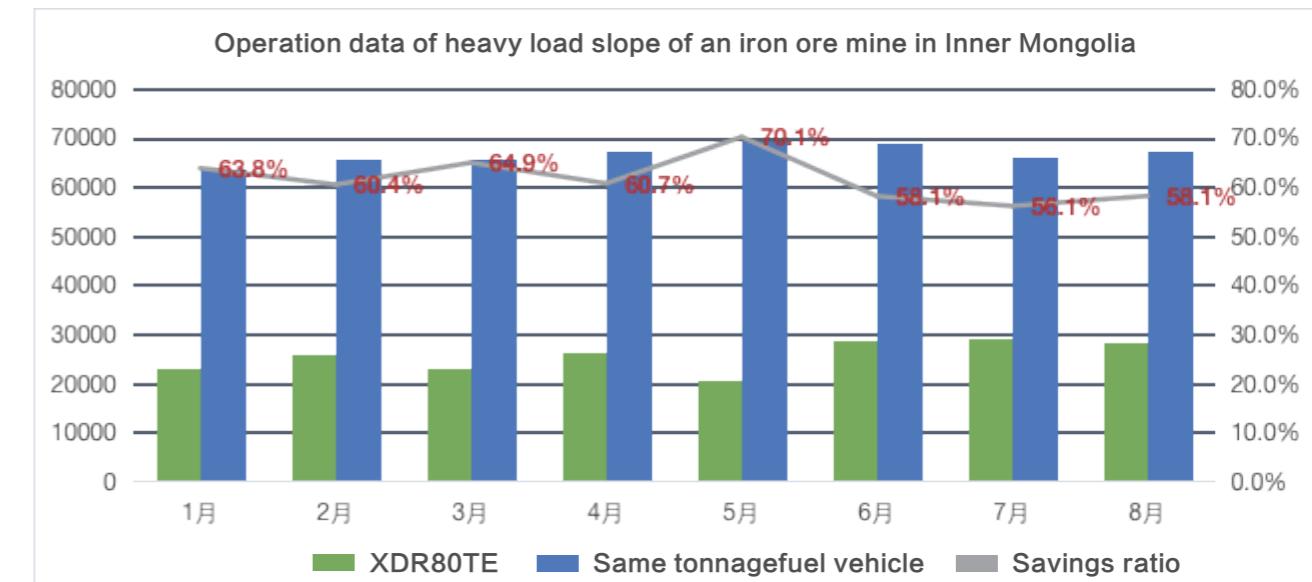


## COMPREHENSIVE RELIABILITY

(Heavy duty downhill) According to the feedback data from the construction site, the fuel cost of XDR80TE is only 20% of the same tonnage under the same working condition and road condition, and 55,000 yuan can be saved monthly. In five years, the net income of XDR80TE is 50% higher than that of the fuel vehicle. In five years, it will save 74,000 yuan in maintenance premiums compared with fuel cars.

## COMPREHENSIVE RELIABILITY

(Heavy-duty flat slope) 0.5km heavy-duty flat slope condition, it needs to be charged twice a day, can run 60 times, and the electricity charge is 500 yuan. Under the same working condition, diesel vehicles need 300L of fuel to complete the same amount of operation, and the cost is about 2250 yuan. The tram saves up to 630,000 yuan a year.

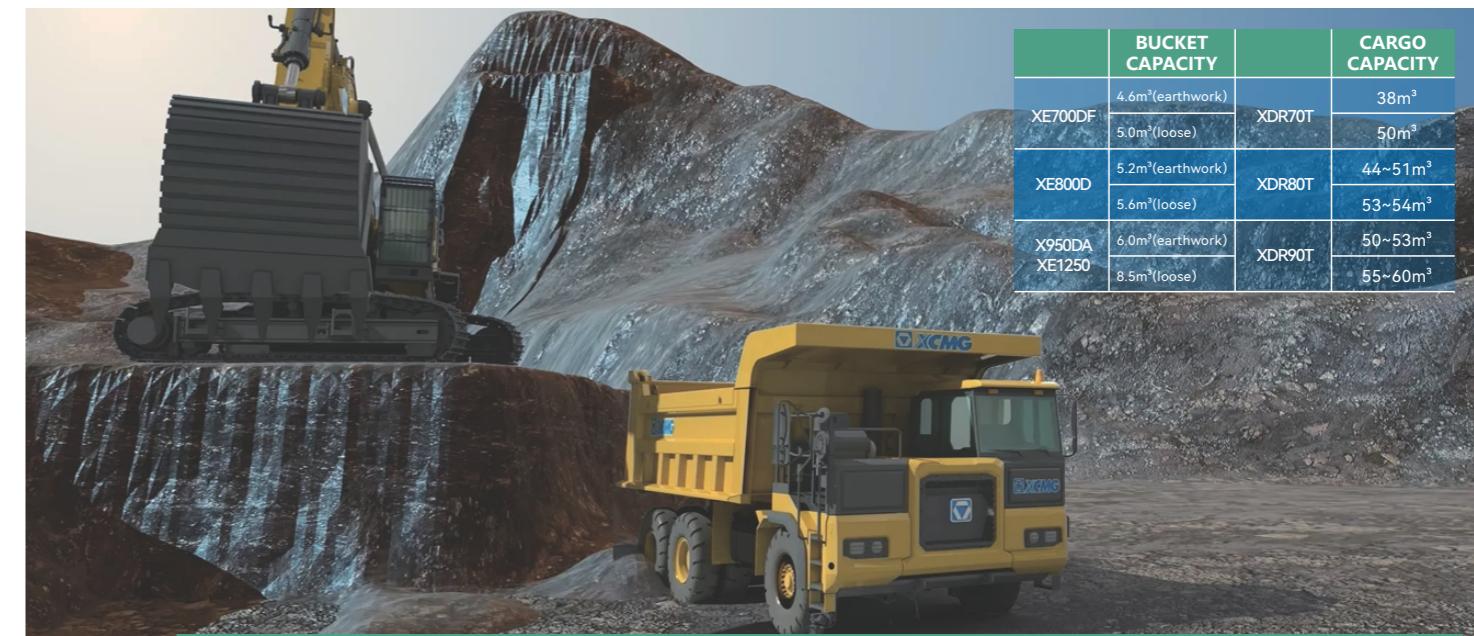
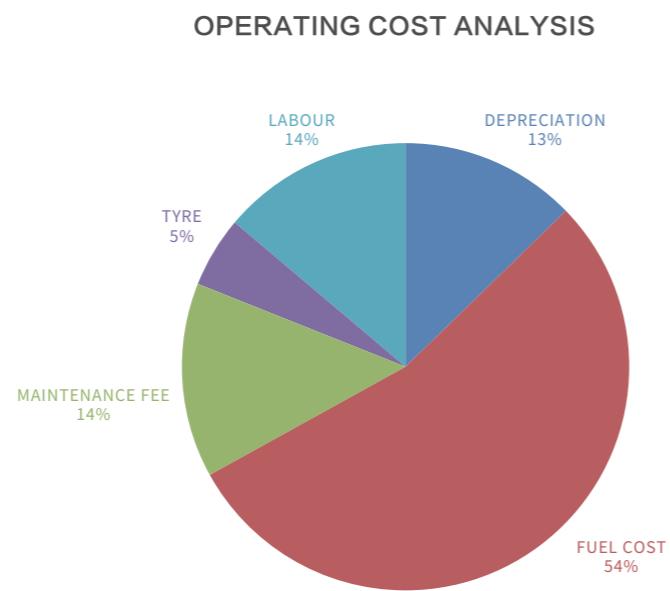


PS: There are differences in electricity prices and fuel prices in different places, and there will be differences between the data comparison and the current reality.

# COMFORTABLE AND SAFE

## COMPREHENSIVE RELIABILITY

Fuel vehicle fuel consumption accounts for more than 50%, the use of tram can save 20% at least, heavy load downhill 10% slope, theory can realize unlimited endurance; 5 years can save about 80,000 yuan maintenance premium (oil filter and engine overhaul, etc.).



	BUCKET CAPACITY		CARGO CAPACITY
XE700DF	4.6m <sup>3</sup> (earthwork)	XDR70T	38m <sup>3</sup>
	5.0m <sup>3</sup> (loose)		50m <sup>3</sup>
XE800D	5.2m <sup>3</sup> (earthwork)	XDR80T	44~51m <sup>3</sup>
	5.6m <sup>3</sup> (loose)		53~54m <sup>3</sup>
X950DA XE1250	6.0m <sup>3</sup> (earthwork)	XDR90T	50~53m <sup>3</sup>
	8.5m <sup>3</sup> (loose)		55~60m <sup>3</sup>

	HAUL DISTANCE (KM)	ROAD CONDITION	LOAD SQUARE QUANTITY (m <sup>3</sup> )	POWER CONSUMPTION (°)	ENERGY CONSUMPTION PER TON-KILOMETER	COST PER TON KILOMETER/¥
XDR80TE	2.937	1.835km (average grade 3.8%) + 1.102km level road	53	54.8	0.19 (°/ton-kilometer)	0.087
CONVENTIONAL FUEL VEHICLE			35	12L	0.068 (°/ton-kilometer)	0.38



## IMPROVE TRANSPORTATION EFFICIENCY

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COST-BENEFIT ANALYSIS		XDR80TE-525	XDR80T
Working days		300	
REVENUE PER TRIP	Revenue per trip	166.6	166.6
	Electricity price/oil price	0.67	7.5
	Energy consumption per trip: KWH or L	15	8.3
	Power consumption per trip: ¥	10.05	62.48
	Income: ¥	157	104
MONTHLY INCOME	Number of trips per day	40	42
	Monthly income: ¥	156550	109331
	Monthly maintenance: ¥	1800	2700
	Staff salary: ¥	24000	24000
	Tire: ¥	13000	13000
ANNUAL RETURN	Monthly net income: ¥	117750	69631
	First-year net income: ¥	1413000	835575
	Second year net income: ¥	1270698	727537
	Third year net income: ¥	1132201	617827
	Fourth year of net income: ¥	1132201	617827
Fifth year of net income: ¥		1132201	617827
TOTAL FIVE-YEAR EARNINGS: ¥		6080301	3416593

PS: There are differences in electricity prices and fuel prices in different places, and there will be differences between the data comparison and the current reality



# XCMG MINING MACHINERY'S COMMITMENT TO YOU

Promise To You

"Whole heart" refers to the sincere heart of "customer as the center" and the altruistic heart of helping "customer success".

"Omni-domain" refers to the precise docking of 24-hour mine presence, one-to-one, point-to-point, escorting each equipment.

"Full service" refers to the full cycle maintenance and management of equipment, the whole process of project operation guarantee, and the full dimension of customer lifetime achievement.

XCMG Mining Machinery is committed to providing global customers with sincere hope service beyond expectations, beyond trust, beyond touching.



# TECHNICAL PARAMETER

## Explanation:

The information and graphics in this brochure reflect the technical features and configuration standards of some models as of the deadline (see configuration table). The configuration varies according to the model (subject to the actual model). In line with the principle of continuous development of products, our company reserves the right to change the technical parameters, optional parts and colors of products at any time. Some pictures in the manual are schematic diagrams for reference only. If the pictures do not match the real ones, the real ones shall prevail. This brochure is for reference only and is not intended as a contract document. For more information, please contact your local Xugong mining machine dealer. Without the authorization of Xuzhou Xugong Mining Machinery Co., LTD, the content of this brochure shall not be reproduced.

## Performance Parameters

Rated Payload	72000kg				
Empty Weight	44000kg				
Gross Vehicle Weight	116000kg				
Drive Style	6×4				
Max. Speed	43km/h				
Max. Gradeability	30%				
Min. Turning Diameter	28m				
Weight Distribution	Empty	Front 40%	Rear 60%		
	Loaded	Front 24%	Rear 76%		
Body Capacity	(Heaped SAE 2:1)	45m <sup>3</sup>			
Overall dimension (EMPTY, L×W×H)	9950×4250×4210mm				
Powertrain	EV430-4E300				
Motor Rated/Peak power	500kW/800kW; 560kW/800kW				
Motor Rated/Peak torque	2737Nm; (535/800)*2Nm				
Transmission	4E300				
Differential Ration	4.625: 1				
Planetary	3.487: 1				
Total Reduction	16.086: 1				

## Main Parts

Tires And Rims	Standard Tire	16.00R25
	Standard Rim	11.25/2.0
<b>Cab</b>		
Type	ROPS&FOPS	ROPS&FOPS Cab
<b>Brake System</b>		
Type	Pneumatic Disc Brake/Auxiliary Electric Brake	
<b>Suspension</b>		
Type	Hydraulic full suspension on all wheels	
Front Suspension	McPherson, Hydro-pneumatic suspension	
Rear Suspension	Hydro-Pneumatic Balanced Suspension	
<b>Hydraulic System</b>		
Steering	Full Hydraulic Steering System, Emergency steering automatically applied by accumulator.	
<b>Electrical System</b>		
Power battery	525/700kWh	525/700kWh lithium iron phosphate battery
Charging mode	DC charging	

