



XDA45E-A0

**XDA45E**  
**XDA45E ELECTRIC ARTICULATED DUMP TRUCK**  
**TECHNICAL SPECIFICATION**



XUZHOU XCMG MINING MACHINERY CO.,LTD

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## XDA45E 纯电动铰接式自卸车技术规格书

### XDA45E Electric Articulated Dump Truck Technical Specification

#### 一、总体概述

##### I . General Overview

XDA45E electric articulated dump truck can be widely used in mining, water conservancy, port and construction fields. The truck has strong power, good passability, high transportation efficiency, and a wide range of applications. It can be used at an ambient temperature of -25°C--50°C. Realize full-load continuous operation.

##### II . Equipment Highlights and Features

###### (一)

###### ( I ) Energy Saving and Environmental Protection

The whole vehicle has low noise. Compared with analog products, it has strong traction, ensures the truck to work quickly and efficiently, and improves the passability of the equipment. Rugged and durable, it can meet the needs of various working conditions. The tried-and-tested, durable components and sophisticated manufacturing process make this series of products more reliable and efficient.

###### ( II ) More Efficient Return

Using high-quality hydraulic components, adopts a pump-controlled hydraulic system and a load-sensitive steering system, and each system operates independently, which improves the stability of the system and the convenience of troubleshooting, ensuring high efficiency operation.

###### (III) Key Core Technology

The XDA45E electric articulated dump truck has broken through a number of core technologies, including:

- 1、 Vehicle all-terrain suspension and adaptive control technology;
- 2、 Heavy load vibration reduction and buffer control technology;

- 3、 Intelligent human-computer interaction and diagnosis technology;
- 4、 Fatigue life improvement technology of key structural parts.

#### (IV) Reliable and Durable

The simulation technology of welding stress and deformation of key structural parts is applied to accurately predict the deformation and residual stress caused during the welding of complex structural parts and optimize the welding process. Carry out research on fatigue life analysis and prediction technology, establish XCMG's proprietary welding fatigue life analysis method of structural parts, and improve the life cycle of key structural parts. Research on the stress relief technology of structural parts, comprehensively apply vibration aging to stress, reduce residual stress, and greatly increase product service life.

#### (V) Intelligent Control

Based on intelligence and information technology, XCMG develops a dedicated intelligent monitoring system for the whole truck, which records the vehicle operating status and related data at any time; GPS data transmission and positioning technology to realize remote data monitoring; comprehensive collection of vehicle operating data, and detailed data processing, analysis and storage, used to guide the development of intelligent programs. According to the structural characteristics of the articulated dump truck, a unique control logic is developed, programmed independently.

#### (VI) Safety and Comfort

The ergonomically designed cab, the cab meets the ISO ROPS/FOPS (anti-rolling/falling object standards), is spacious and has a wide field of vision.

### III. Main Technical Parameter of Product

**XDA45E Electric Articulated Dump Truck Main Technical Parameter Table**

<i>类别</i> <i>Category</i>	<i>项目</i> <i>Item</i>	<i>单位</i> <i>Unit</i>	<i>参数</i> <i>Parameter</i>
Dimension	Overall length	mm	11880

## XDA45E Electric Articulated Dump Truck Technical Specification

	Overall width		mm	3950
	Overall height		mm	4500
	Front center wheelbase		mm	4450
	Center and rear wheelbase		mm	1940
	Wheel center distance	Front wheel	mm	2700
		Rear wheel	mm	2700
Weights	Gross machine weight		kg	82000
	Rated payload		kg	41000
	Unloaded weight		kg	41000
Power	Total battery capacity		kWh	590.77
	Rated power		kW	590
	Drive form		/	6×6
	Tires		/	29.5R25
Driving	Max. speed		km/h	43
	Max. grade		%	45
	Max. steering angle		°	±42
	Min. ground clearance		mm	530
Working	Loading height		mm	3272
	Lifting time		s	12
	Lifting angle		°	70
Maintenance capacity	Hydraulic tank		L	300
	Drive wheel		L	11
	Drive axle		L	179
Body capacity	Struck		m <sup>3</sup>	19.5
	Heaped 2:1		m <sup>3</sup>	25

## IV . Product Standard, Optional Components List

### XDA45E Electric Articulated Dump Truck Standard, Optional Components List)

## V .Declaration

As this product is still in the research and development stage, the above information is based on the available relevant content and parameters at this stage and is only used as a reference for the current phase. It is not the final version.

We follow the sustainable development principle and reserve the right to make improvements from time to time without prior notice.



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